website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

PLASMA TV
SERVICE MANUAL

CHASSIS : MF-056A

MODEL : 42PX4R
42PX4R-ZA

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.

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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this monitor is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

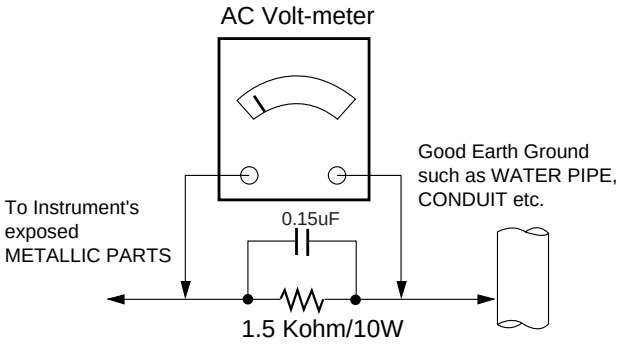
Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube**. Do not lift the Picture tube by it's Neck.

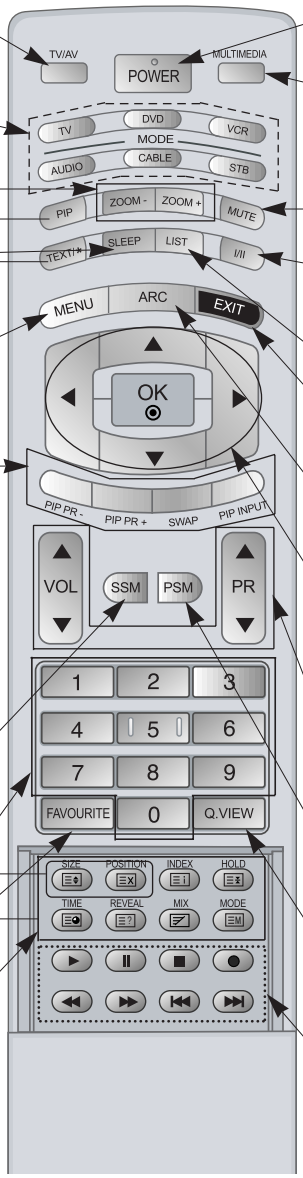
Leakage Current Cold Check(Antenna Cold Check)
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.
Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



DESCRIPTION OF CONTROLS



TV/AV
Selects the TV, AV, Component, RGB or HDMI modes.
switches the set on from standby.

MODE
Selects another device.

ZOOM - / ZOOM +
Enlarges or reduces the main picture size.

SLEEP
Sets the sleep timer.

MENU
Displays on screen menus one by one.
Exits the current menu.
Memorizes menu changes.

PIP
Switches the sub picture on or off.
Selects PIP or DW modes.
PIP PR + /-
Selects a programme for the sub picture.
SWAP
Alternates between main and sub picture.
PIP INPUT
Selects the input mode for the sub picture.
SIZE
Adjusts the sub picture size.
POSITION
Moves the sub picture to D / E or F / G direction.

SSM
To select the sound appropriate to your viewing programme character.

NUMBER buttons

FAVOURITE
selects a favorite programme.

TEXT/*
These buttons are used for teletext.
For further details, see the 'Teletext' section.
Note : *In teletext mode, the* ***PIP PR +/-****,* ***SWAP*** *and* ***PIP INPUT*** *buttons are used for teletext function.*

POWER
switches the set on from standby or off to standby.

MULTIMEDIA
Selects the Component, RGB or HDMI modes.
switches the set on from standby.

MUTE
Switches the sound on or off.

I/II
Selects the language during dual language broadcast.
Selects the sound output.

LIST
Displays the programme table.

EXIT
Clears all on-screen displays and returns to TV viewing from any menu.

ARC
Changes the picture format.

OK
accepts your selection or displays the current mode.

D / E or F / G
Adjusts menu settings.
Selects menu item.

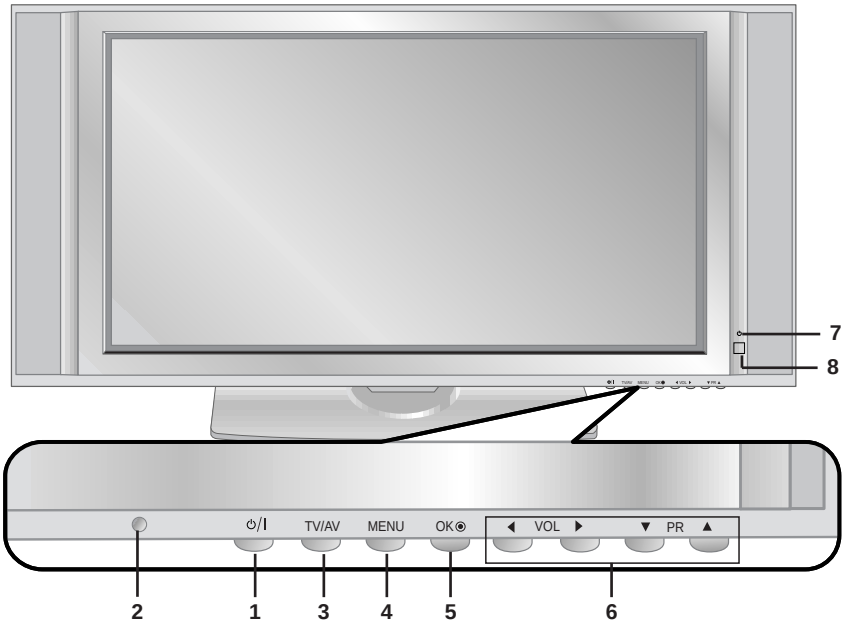
VOL +/- (Volume Up/Down)
Increases/decreases sound level.
PR +/- (Programme Up/Down)
Selects a programme.

PSM
Adjusts the factory preset picture according to the room.

Q.VIEW
Returns to the previously viewed programme.

VCR BUTTONS
Controls a LG video cassette recorder.

<Front Panel Controls>



1. **Power Button**
   Switches the set on from standby or off to standby.

2. **Remote Control Sensor**

3. **TV/AV Button**
   Selects the TV, AV, Component, RGB or HDMI modes.
   Switches the set on from standby.

4. **MENU**
   Displays on screen menus one by one.
   Exits the current menu.
   Memorizes menu changes.

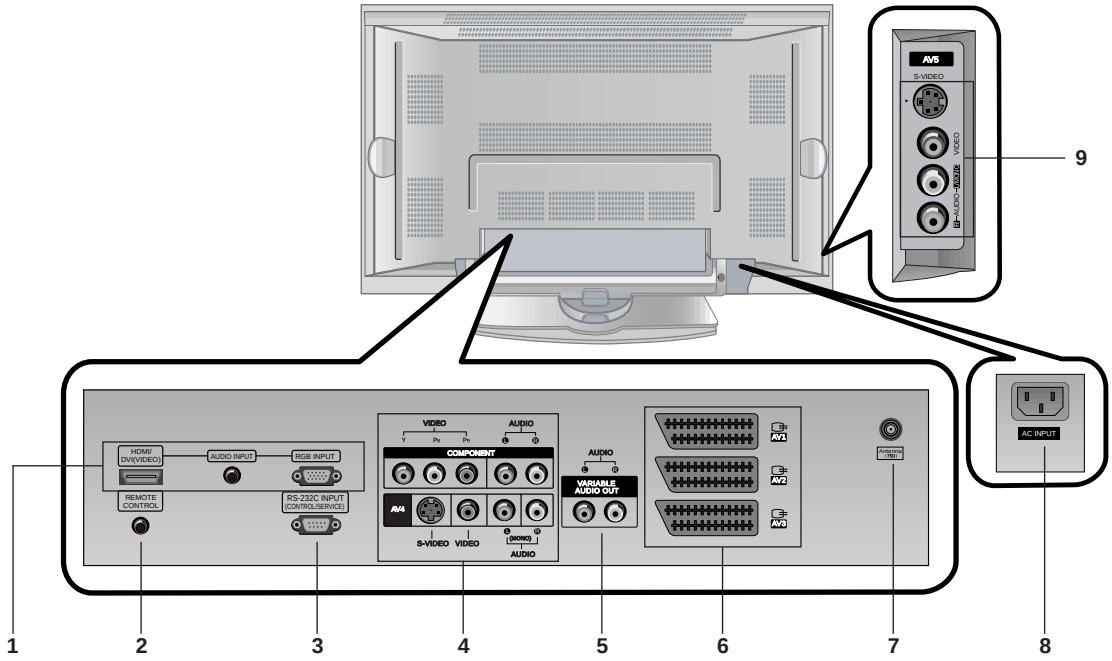
5. **OK**
   Accepts your selection or displays the current mode.

6. **D / E (Programme Up/Down)**
   Selects a programme or a menu item.
   Switches the set on from standby.
   F / G (Volume Up/Down)
   Adjusts the volume.
   Adjusts menu settings.

7. **Power Indicator**
   Illuminates red in standby mode, Illuminates green when the set is turned on

8. **Intelligent Eye**
   Adjusts picture according to the surrounding conditions.

<Back Panel>



1. HDMI(DVI VIDEO) / AUDIO INPUT / RGB INPUT

Connect the monitor output socket of the PERSONAL COMPUTER, DVD or STB to this socket.

Note: *If you want to use RGB/DVI audio, we strongly recommend that you use the cable that has a core, or the EMI Filter core along with separate cable.*

2. CONTROL LOCK / REMOTE CONTROL

3. RS-232C INPUT(CONTROL/SERVICE) PORT

Connect to the RS-232C port on a PC.

4. COMPONENT INPUT

Connect DVD video outputs to Y, P_B, P_R of COMPONENT INPUT and audio outputs to Audio sockets of AUDIO INPUT.

AUDIO/VIDEO IN SOCKETS (AV4)

Connect the audio/video out sockets of external equipment to these sockets.

S-VIDEO/AUDIO IN SOCKETS

Connect the S-VIDEO out socket of an VCR to the **S-VIDEO** socket.

Connect the audio out sockets of the VCR to the audio sockets as in **AV4**.

5. VARIABLE AUDIO OUTPUT

6. EURO SCART SOCKET

Connect the euro scart socket of the VCR to these sockets.

Note: *If you want to use the EURO scart cable, you have to use the signal shielded Euro scart cable.*

7. ANTENNA INPUT

8. POWER CORD SOCKET

This set operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the set on DC power.

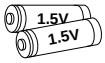
9. AUDIO/VIDEO INPUT (AV5)
S-VIDEO/AUDIO IN SOCKETS

Accessories

Owner's Manual

Remote Control handset

2-Eye Bolts



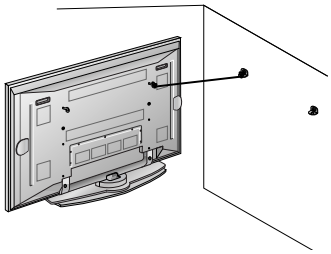
Alkaline batteries

Power Cord

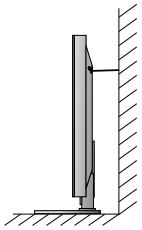
2-Wall brackets

Joinning the set assembly to the wall to protect the set tumbling

- Secure the set assembly by joinning it to a wall by using the Eye Bolts/Wall brackets.



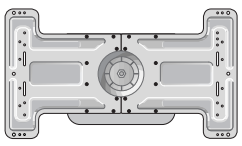
- After the set must be mounted on a desktop, install the Eye Bolts on the set as shown.
  Insert the 2 Eye Bolts and tighten securely, in the holes on the bracket.
  Install the wall brackets on the wall with 2 bolts, (not supplied with the product), as shown.
  Match the height of the Eye Bolts and the wall brackets.
  Check to be sure the brackets are tightened securely.



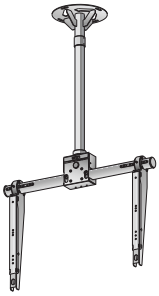
- Secure the set assembly to the wall with strong strings or wound wire cables, (not supplied with the product), as shown.

Optional Extras

- Optional extras can be changed or modified for quality improvement without any notification new optional extras can be added.
- Contract your dealer for buying these items.

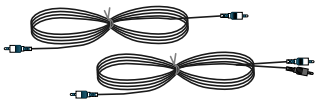


Tilt wall mounting bracket



Ceiling mounting bracket

Video cables



Audio cables

SPECIFICATIONS

NOTE : Specifications and others are subject to change without notice for improvement.

v Application Range

This spec is applied to the 42”PDP TV used MF-056A Chassis.

v Specification

Each part is tested as below without special appointment.

1) Temperature : 25±5°C (77±9°F), CST : 40±5
2) Relative Humidity: 65±10%
3) Power Voltage: Standard Input voltage (100-240V~, 50/60Hz)
   * Standard Voltage of each product is marked by models.
4) Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM.
5) The receiver must be operated for about 20 minutes prior to the adjustment.

v Test Method

1) Performance : LGE TV test method followed.
2) Demanded other specification
   Safety: CE, IEC specification
   EMC : CE, IEC

Model Name	Market	Remark
42PX4R-ZA	EU	Safety : IEC/EN60065, EMI : EN55013, EMS : EN55020

v General Specification

1. General Specification

No	Item	Specification	Remark
1	Display Screen Device	42 inch wide Color Display Module	PDP
2	Aspect Ratio	16:9	
3	PDP Module	PDP42X2##2#, RGB Closed Type, Glass Filter	 Glass/Film type is TBD
4	Operating Environment	1) Temp : 0~40 deg 2) Humidity : 0~85%	LGE SPEC
5	Storage Environment	1) Temp : -20~60 deg 2) Humidity : 0~85%	
6	Input Voltage	100-240V~, 50/60Hz	Maker : SONY/ Sanken

2. Model Specification

No	Item	Specification			Remark
1	Market	EU			
2	Broadcasting system	PAL B/G/I/D/K, NTSC			
3	Available Channel	BAND	PAL	NTCS	
		VHF/ UHF	C1~C69	2~83	
		CATV	S1~S47	1~71	
4	Receiving system	Upper Heterodyne			
5	Scart Jack(3EA)	PAL, SECAM, NTSC			4 System : PAL, SECAM, NTSC,PAL60
6	Video input(2EA)	PAL, SECAM, NTSC			4 System : PAL, SECAM, NTSC,PAL60
7	S-Video Input(3EA)	PAL, SECAM, NTSC			
8	Component Input(1EA)	Y/Cb/Cr, Y/Pb/Pr			
9	RGB Input(1EA)	RGB-PC RGB-DTV			
10	HDMI Input(1EA)	HDMI-PC HDMI-DTV			 L/R Input
11	Audio Input(4EA)	PC Audio, Component(1EA), AV(2EA)			
12	Wired Control				
13	Audio variable out(1EA)				

ADJUSTMENT INSTRUCTIONS

1. Application Object

These instructions apply to the MF-056A Chassis.

2. Specification

(1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test instrument.
(2) Adjustment must be done in the correct order.
(3) The adjustment must be performed in the circumstance of 25±5°C of temperature and 65±10% of relative humidity if there is no specific designation.
(4) The input voltage of the receiver must keep 100-220V, 50/60Hz.
(5) The receiver must be operated for about 15 minutes prior to the adjustment.

o After RGB Full white HEAT-RUN Mode, the receiver must be operated prior to adjustment.
o Enter into HEAT-RUN MODE
  1) Press the POWER ON KEY on R/C for adjustment.
  2) OSD display and screen display 100% full WHITE PATTERN.

[Set is activated HEAT-RUN without signal generator in this mode.
[Single color pattern(RED/BLUE/GREEN) of HEAT-RUN mode uses to check PANEL.

Caution) If you turn on a still screen more than 20 minutes (Especially digital pattern, cross hatch pattern), after image may be occur in the black level part of the screen.

3. Channel memory

3-1. Setting up the LGIDS

1) Install the LGIDS. (idsinst.exe)
2) After installation, restart your PC.
3) Extract [files.zip] to folder [c:\LGIDS\files].
4) Start LGIDS.

(Fig. 1)

3-2. Channel memory Method

1) Select “PDP” and “Hurricane” on Model dialog. And check your connection in Communication dialog. (If your connection is ‘NG’, then set your PORT(COM1,2,3,...) correctly.)
2) Connect RS-232C cable and turn on the power.
   (If your connection has completed, you can see “Ready”.)

[If your set is not an end products but only a board, you have to make your board to Stand-by state (LED_R). And you have to Download in Stand_by power state.

(Fig. 3)

3) Select proper CH_memory file(*.nvm) for each model at [NVRAM Download] $ [Write Batch]
   Next, select proper binary file(*.bin) including the CH information for each model at [NVRAM File].
4) Click the [Download] button.
   It means the completion of the CH memory download if all items show ‘OK’ and Status is changed by ‘PASS’ at the lower right corner of the window.
5) If you want to check whether the CH information is memorized correctly or not, click the [Verify] button.
   And then compare NVRAM File(*.bin) with the CH information downloaded.

(Fig. 3-1)

3-3 Sub program download

1) Select “PDP” and “Hurricane” on Model dialog. And check your connection in Communication dialog. (If your connection is ‘NG’, then set your PORT(COM1,2,3,...) correctly.)

2) Connect RS-232C cable and turn on the power. (Use the special Cable For Sub-program) (If your connection has completed, you can see “Ready”)

Each PCB assembly must be checked by check JIG set. (Because power PCB Assembly damages to PDP Module, especially be careful)

4. POWER PCB Assy Voltage Adjustments (Va, Vs Voltage Adjustments)

4-1. Test Equipment : D.M.M. 1EA

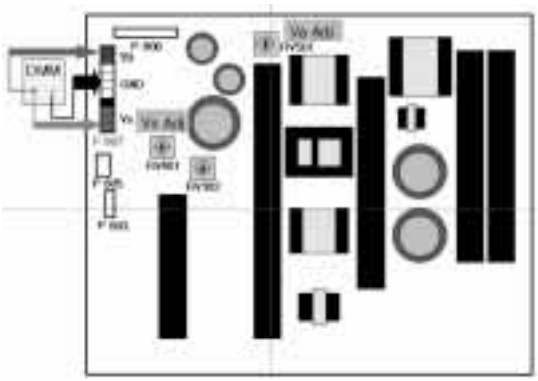
4-2. Adjustment Method [P/No 3501V00220A(Sanken PSU) B/D]

(1) Va Adjustment

1) After receiving 100% Full White Pattern, HEAT RUN.
2) Connect + terminal of D.M.M to Va pin of P807, connect - terminal to GND pin of P807.
3) After turning RV501, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (Deviation; ±0.5V)

(2) Vs Adjustment

1) Connect + terminal of D.M.M to Vs pin of P807, connect – terminal to GND pin of P805.
2) After turning RV401, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (Deviation; ±0.5V)



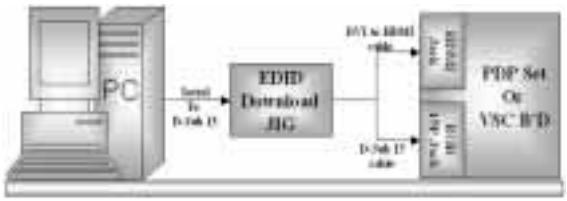
(Fig. 4) Connection diagram of power adjustment for measuring

5. EDID (The Extended Display Identification Data)/ DDC (Display Data Channel) download

5-1. Required Test Equipment

1) Adjusting PC with S/W for writing EDID Data.(S/W : EDID TESTER Ver.2.5)
2) A Jig for EDID Download
3) Cable : Serial(9Pin or USB) to D-sub 15Pin cable, D-sub 15Pin cable, DVI to HDMI cable

5-2. Setting of device



(Fig. 5) Connection Diagram of DDC download

5.3. Preparation for Adjustment

1) As above Fig. 5, Connect the Set, EDID Download Jig, PC & Cable.
2) Turn on the PC & EDID Download Jig. And Execute the S/W : EDID TESTER Ver,2.5
3) Set up S/W option
   Repeat Number : 5
   Device Address : A0
   PageByte : 8
4) Power on the Set

5.4. Sequence of Adjustment

(1) DDC data of Analog-RGB

1) Init the data

2) Load the EDID data.(Open File)
   [Analog-RGB : MF056A_RGB.ANA]
   [digital(HDMI) : MF056A_DMI.DVI]

3) Set the S/W as below.
4) Push the “Write Data & Verify”button. And confirm “Yes”.
5) If the writing is finished, you will see the “OK” message.

6. Auto AV(CVBS) Color Balance

6-1. Required

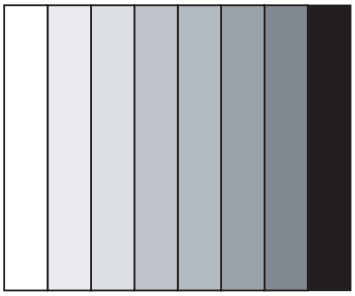
- This AV color balance adjustment should be performed befor white Balance Adjustment

6-2. Required Equipment

1) Remote controller for adjustment
2) AV Pattern Generator
   : 802F Pattern Generator, Master(MSPG-925FA), etc
   (Which has PAL Composite Video format output with standard(1.0 Vpp) Vertical 100% Color Bar Pattern as Fig6)

6-3. Method of Auto Color Balance

1) Input the PAL Composite Video (Fig6. 100% Color Bar Pattern) into video input.
   (42PX4RV-TA : AV1/AV2 Input 50Hz,
   42PX4RV-ZA : AV4/AV5 Input)
2) Set the PSM to Standard mode in Picture menu.
3) Press INSTAR key on R/C for adjustment.
4) Press the G (Vol. +) key operate to set, then it becomes automatically.
5) Auto-RGB OK means completed adjustment.



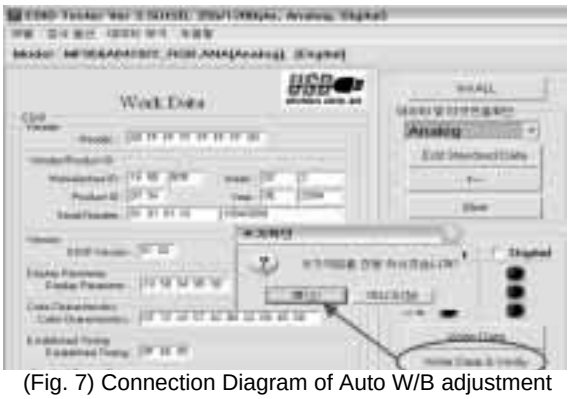
(Fig. 6) Auto AV(CVBS) Color Balance Test Pattern

7. Adjustment of White Balance

7-1. Required Equipment

1) Remote controller for adjustment
2) Color Analyzer (CA-100 or same product)
3) Auto W/B adjustment instrument(only for auto adjustment)
4) AV Pattern Generator

7-2. Connecting diagram of equipment for measuring (For Auto Adjustment)



(Fig. 7) Connection Diagram of Auto W/B adjustment

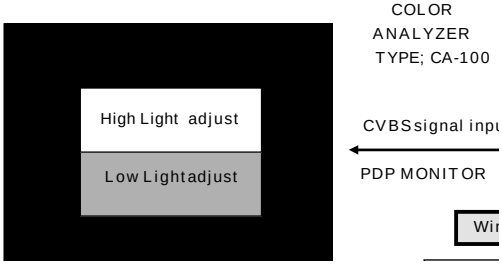
W Auto adjustment Map(RS-232C)

Type		MF-056A : RT-42PX40/ RZ-42PX40				
Baud Rate		Data bit		Stop bit		Parity
115200		8		1		NONE
Protocol Setting	Index	Cmd1	Cmd2	Data	Min Value	Max Value
	R Gain	j	a		00(00)	255(FF)
	G Gain	j	b		00(00)	255(FF)
	B Gain	j	c		00(00)	255(FF)
	R Offset	j	d		00(00)	255(FF)
	G Offset	j	e		00(00)	255(FF)
	B Offset	j	f		00(00)	255(FF)

7-3. Adjustment of White Balance

o Operate the zero-calibration of the CA-100, then stick sensor to PDP module surface when you adjust.
o For manual adjustment, it is also possible by the following sequence.

1) Select white pattern of heat-run mode by pressing power on key on remote control for adjustment then operate heat run more than 15 minutes.
2) As below Fig.7-1, Supply 216Level (85 IRE) full screen pattern to Video input.
   (42PX4RV-TA : AV1/AV2 INPUT 50Hz,
   42PX4RV-ZA : AV4/AV5 INPUT)
3) Press the TV/AV KEY on R/C for converting input mode.
4) Set the PSM to Standard mode in Picture menu.
5) Enter the White Balance adjustment mode by pressing the INSTART key twice(White Balance) on R/C.
6) Stick sensor to center of the screen and select each items (Red/Green/Blue Gain and offset) using D / E (CH +/-) key on R/C.
7) Adjust Only High Light with R Gain/ B Gain using F / G (VOL+/-) key on R/C.
8) Adjust it until color coordination becomes as below.
   (High Light G Gain : 7A // Low Light R Offset : 7F, G Offset 7E, B Offset 80 is Fixed)
   [MF-056A : 42PX4RV-TA/ZA] - VGA 42”
   Bright : High Light : 80 ± 20cd
   Color-Coordinate : High Light : X : 0.285 ± 0.003
   Y : 0.295 ± 0.003
   Color Temperature : 9,300°K ± 500°K



(Fig. 7-1) Pattern for Adjustment of White Balance

9) When adjustment is completed, Exit adjustment mode using EXIT key on R/C

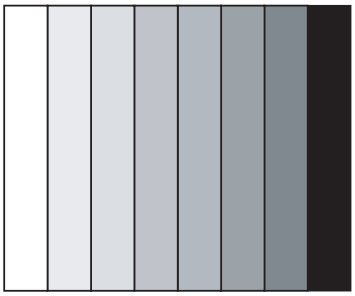
8. Auto Component Color Balance

8-1. Required Test Equipment

1) Remote controller for adjustment
2) 802F Pattern Generator
   (Which has 720p Ypbpr output & PC 1024x768 60Hz with Standard(0.7Vpp) Vertical 100% Color Bar Pattern as Fig.8)

8-2. Method of Auto Component Color Balance

1) Input the Component 720p 100% Color Bar signal into Component1 or Component2.
2) Set the PSM to Standard mode in Picture menu.
3) Press INSTART key on R/C for adjustment.
4) Press the G (Vol. +) key operate To set, then it becomes automatically.
5) Auto-RGB OK means complete adjustment



(Fig. 8) Auto Component Color Balance Test Pattern

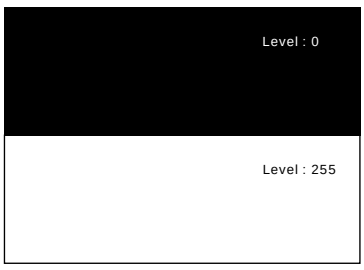
9. Auto RGB Color Balance

9-1. Required Test Equipment

1) Remote controller for adjustment
2) 802F Pattern Generator, Master (MSPG-925FA), etc.
   (Which has XGA 60Hz PC Format output with standard (0.7Vpp) horizontal black and white pattern as Fig.10)

9-2. Method of Auto RGB Color Balance

1) Input the PC 1024x768 60Hz horizontal black and white pattern into RGB.
2) Set the PSM to Standard mode in Picture menu.
3) Press ADJ key on R/C for adjustment.
4) Press the G (Vol. +) key operate To set, then it becomes automatically.
5) Auto-RGB OK means completed adjustment.



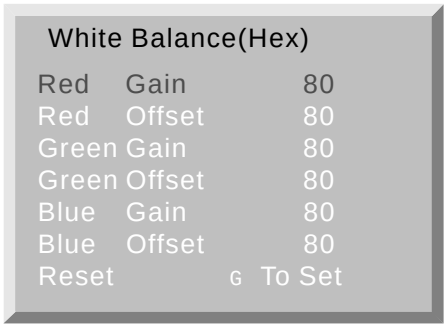
(Fig. 9) Auto RGB Color Balance Test Pattern

9. Default Value in Adjustment mode

9-1. Auto Color Balance (Component/RGB)

(Fig. 10) Default Value on OSD

9-2. White Balance



(Fig. 10-1) Default Value on OSD

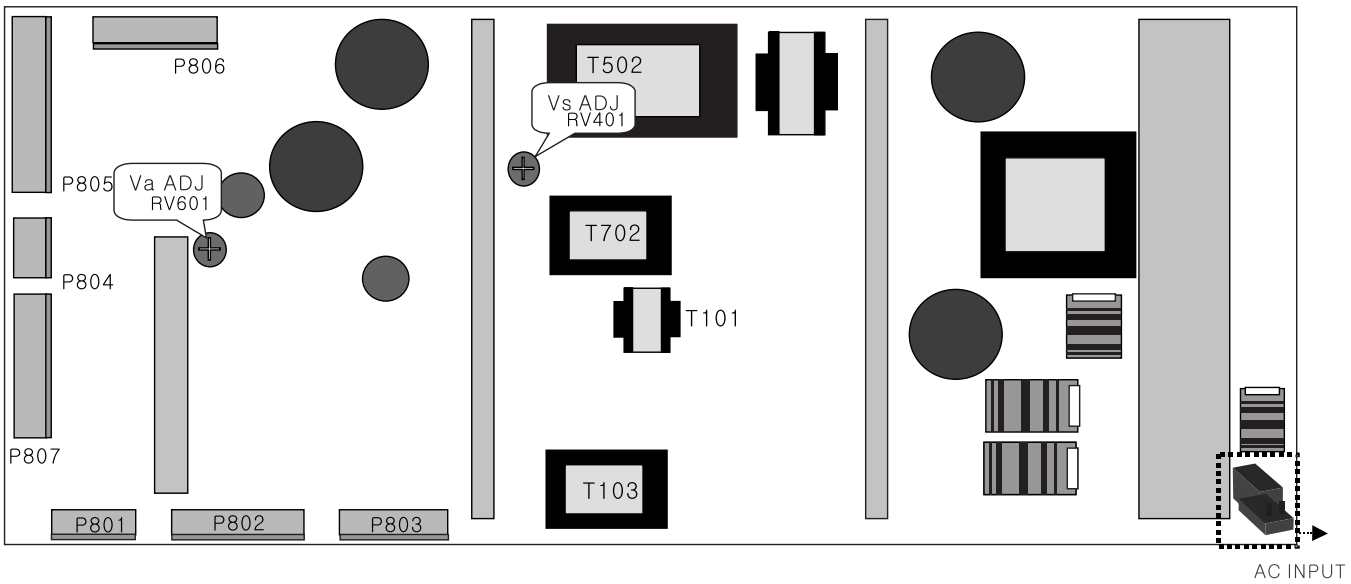
TROUBLE SHOOTING GUIDE

1. Power Board

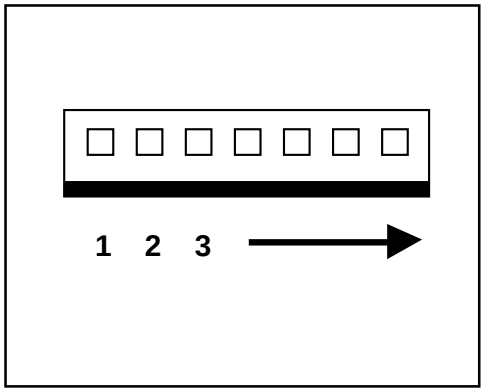
1-1. The whole flowchart which it follows in voltage output state

Start check
Doesn't the screen whole come out?
Yes
Is it identical with Power Off condition?
No
Is the Interface signal operated?
Yes
1. Check the Power Off condition.
Yes
2. Check the Interface signal condition.
No
Doesn't the low pressure output come out?
Yes
Doesn't the St-by 5V signal come out?
No
Doesn't the 5V Monitor signal come out?
No
Doesn't the VSC signal RL-ON come out?
Yes
3. Check the St-by 5V signal circuit.
Yes
4. Check the 5V Monitor signal circuit.
Yes
5. Check the VSC RL-ON signal.
No
Doesn't the high tension output come out?
Yes
Doesn't the VSC signal Vs-ON come out?
No
Doesn't the Vs, Va voltage output come out?
No
Doesn't the VSC low pressure output come out?
Yes
7. Check the VSC Vs-ON signal
Yes
8. Check the Vs, Va voltage output circuit.
Yes
6. Check the VSC low pressure output
No
Does high tension output voltage Drop occur?
Yes
When the Y, Z B/D Module input connector is remove, does Power Board hightension output voltage Drop occur?
No
When the Y B/D Module input connector is removed, does output voltage drop occur?
No
When the Z B/D Module input connector is removed, does output voltage Drop occurs?
No
Manufacture enterprise meaning of a passage
Yes
9. Check the Power Board Output high tension circuit
Yes
10. Check the Z B/D Module output circuit
Yes
11. Check the Y B/D Module output circuit

1-2. Sony Power Board Structure



PIN No	1	2	3	4	5	6	7	8	9	10	11	12
P801	POD	5V-MNT	VS-ON	GND	STBY5V	RL-ON	A-ON					
P802	GND	GND	12V	12V	GND	GND	6V	6V	GND	GND	3.4V	3.4V
P803	GND	12V	GND	3.4V	GND	6V	GND	GND	25V	25V		
P804	GND	GND	5V	5V								
P805	Vs	Vs	Vs	NC	GND	GND	GND	GND	Va	Va		
P806	5V	GND	Va	GND	GND	NC	Vs	Vs				
P807	5V	5V	5V	5V	GND	GND	GND	GND				



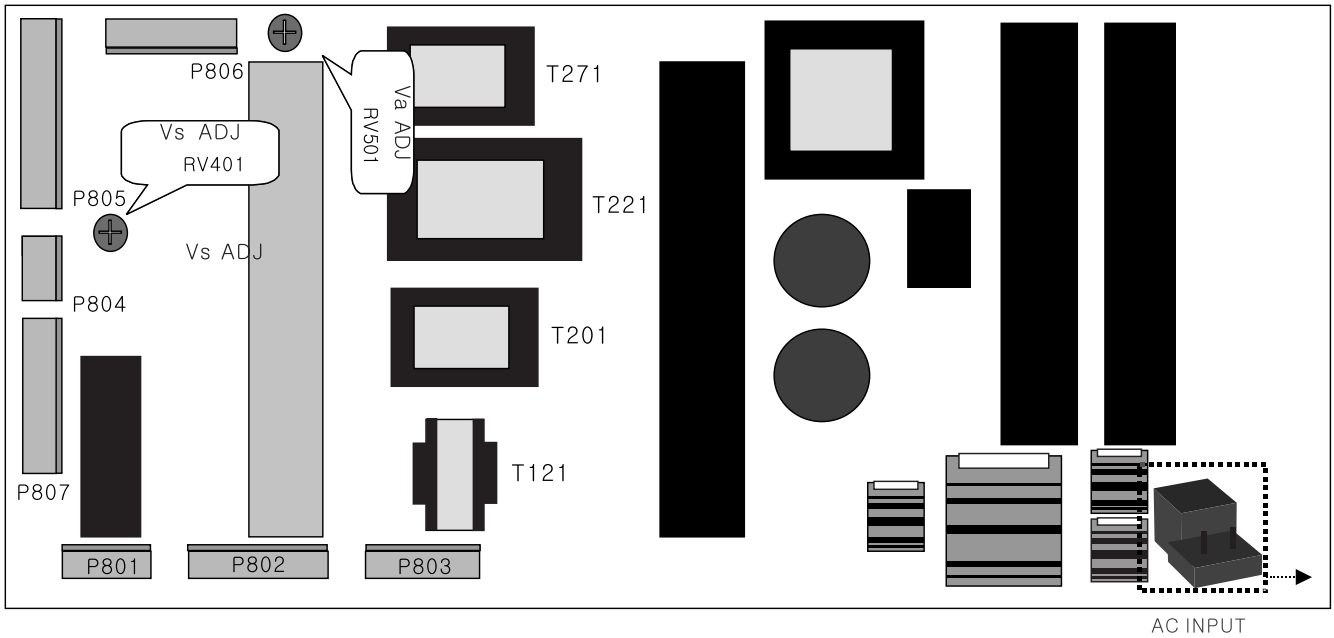
T502: Vs Trans

T702: Va Trans

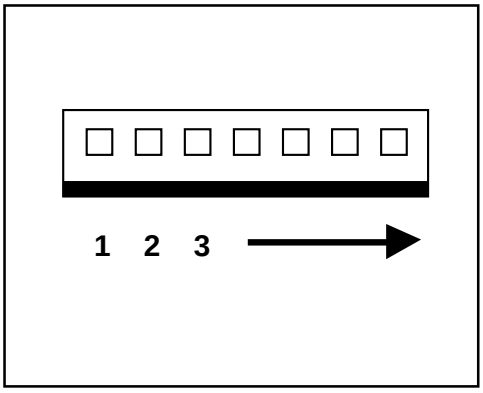
T101: St-by Trans

T103: Low Voltage Trans

1-3. Sanken, LGIT Power Board Structure



PIN No	1	2	3	4	5	6	7	8	9	10	11	12
P801	NC	5V-MNT	VS-ON	GND	STBY5V	RL-ON	A-ON					
P802	GND	GND	12V	12V	GND	GND	6V	6V	GND	GND	3.4V	3.4V
P803	GND	12V	GND	3.4V	GND	6V	GND	GND	19V	19V		
P804	GND	GND	5V	5V								
P805	Vs	Vs	Vs	NC	GND	GND	GND	GND	Va	Va		



T221: Vs Trans

T271: Va Trans

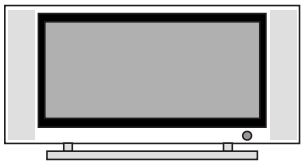
T121: St-by Trans

T201: Low Voltage Trans

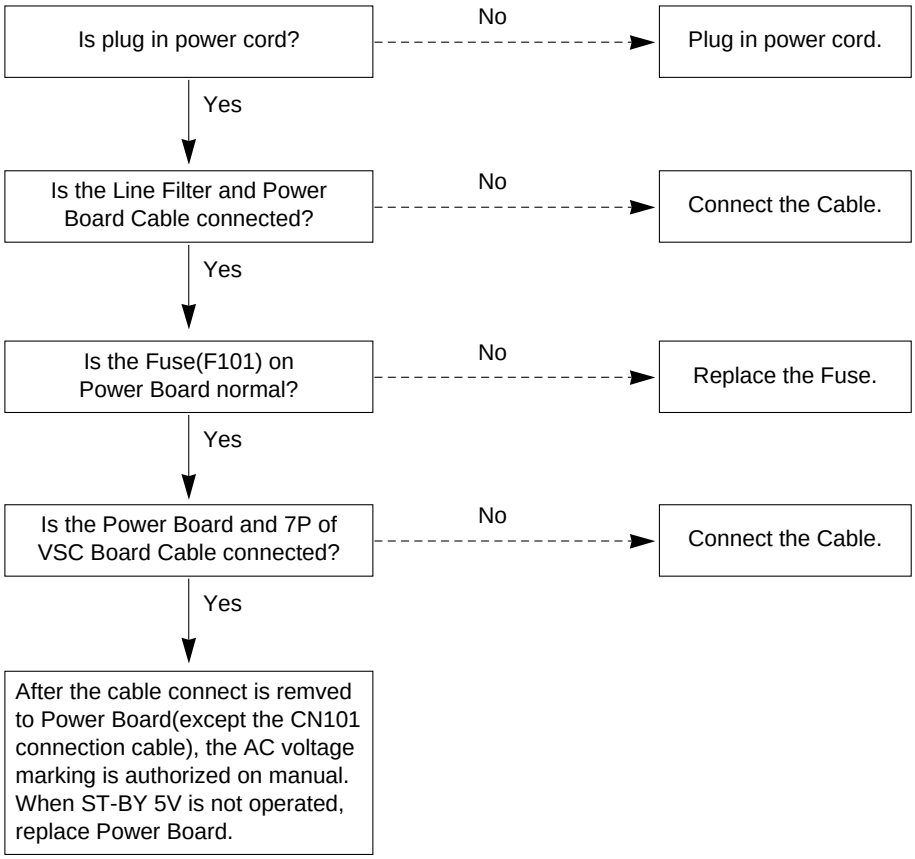
2. No Power

(1) Symptom

- Does't minute discharge at module.
- Non does not come in into the front LED.



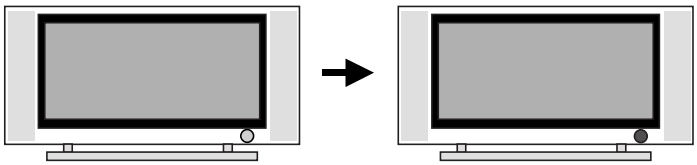
(2) Check following


Is plug in power cord?
No
Plug in power cord.
Yes
Is the Line Filter and Power Board Cable connected?
No
Connect the Cable.
Yes
Is the Fuse(F101) on Power Board normal?
No
Replace the Fuse.
Yes
Is the Power Board and 7P of VSC Board Cable connected?
No
Connect the Cable.
Yes
After the cable connect is remved to Power Board(except the CN101 connection cable), the AC voltage marking is authorized on manual. When ST-BY 5V is not operated, replace Power Board.

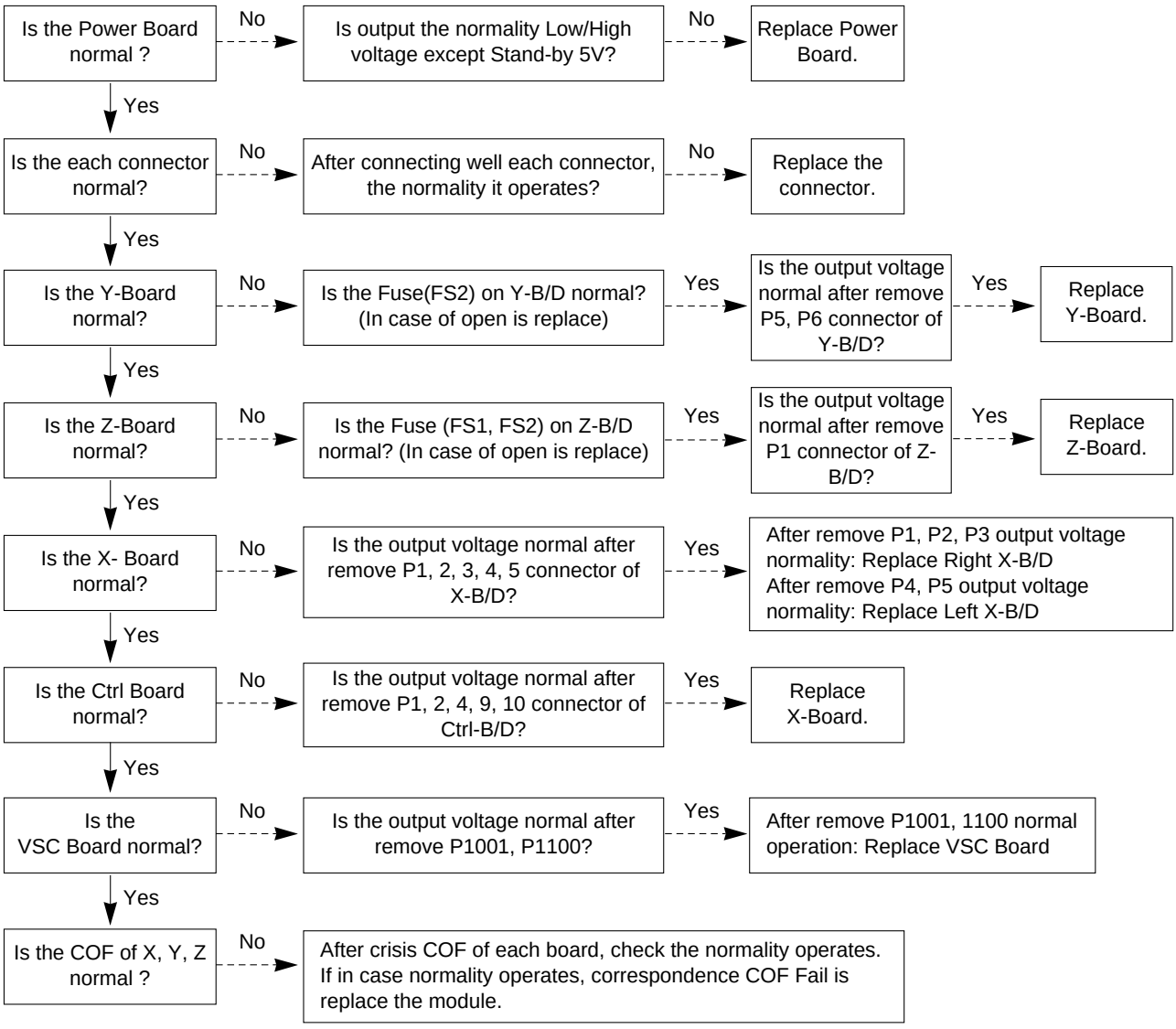
3. Protect Mode

(1) Symptom

- After once shining, it does not discharge minutely from module
- The Rely falls(The sound is audible “click”)
- It is converted with the color where the front LED is red from green.



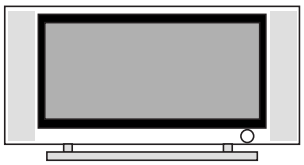
(2) Check following


Is the Power Board normal ?
No
Is output the normality Low/High voltage except Stand-by 5V?
No
Replace Power Board.
Yes
Is the each connector normal?
No
After connecting well each connector, the normality it operates?
No
Replace the connector.
Yes
Is the Y-Board normal?
No
Is the Fuse(FS2) on Y-B/D normal? (In case of open is replace)
Yes
Is the output voltage normal after remove P5, P6 connector of Y-B/D?
Yes
Replace Y-Board.
Yes
Is the Z-Board normal?
No
Is the Fuse (FS1, FS2) on Z-B/D normal? (In case of open is replace)
Yes
Is the output voltage normal after remove P1 connector of Z-B/D?
Yes
Replace Z-Board.
Yes
Is the X- Board normal?
No
Is the output voltage normal after remove P1, 2, 3, 4, 5 connector of X-B/D?
Yes
After remove P1, P2, P3 output voltage normality: Replace Right X-B/D
After remove P4, P5 output voltage normality: Replace Left X-B/D
Yes
Is the Ctrl Board normal?
No
Is the output voltage normal after remove P1, 2, 4, 9, 10 connector of Ctrl-B/D?
Yes
Replace X-Board.
Yes
Is the VSC Board normal?
No
Is the output voltage normal after remove P1001, P1100?
Yes
After remove P1001, 1100 normal operation: Replace VSC Board
Yes
Is the COF of X, Y, Z normal ?
No
After crisis COF of each board, check the normality operates. If in case normality operates, correspondence COF Fail is replace the module.

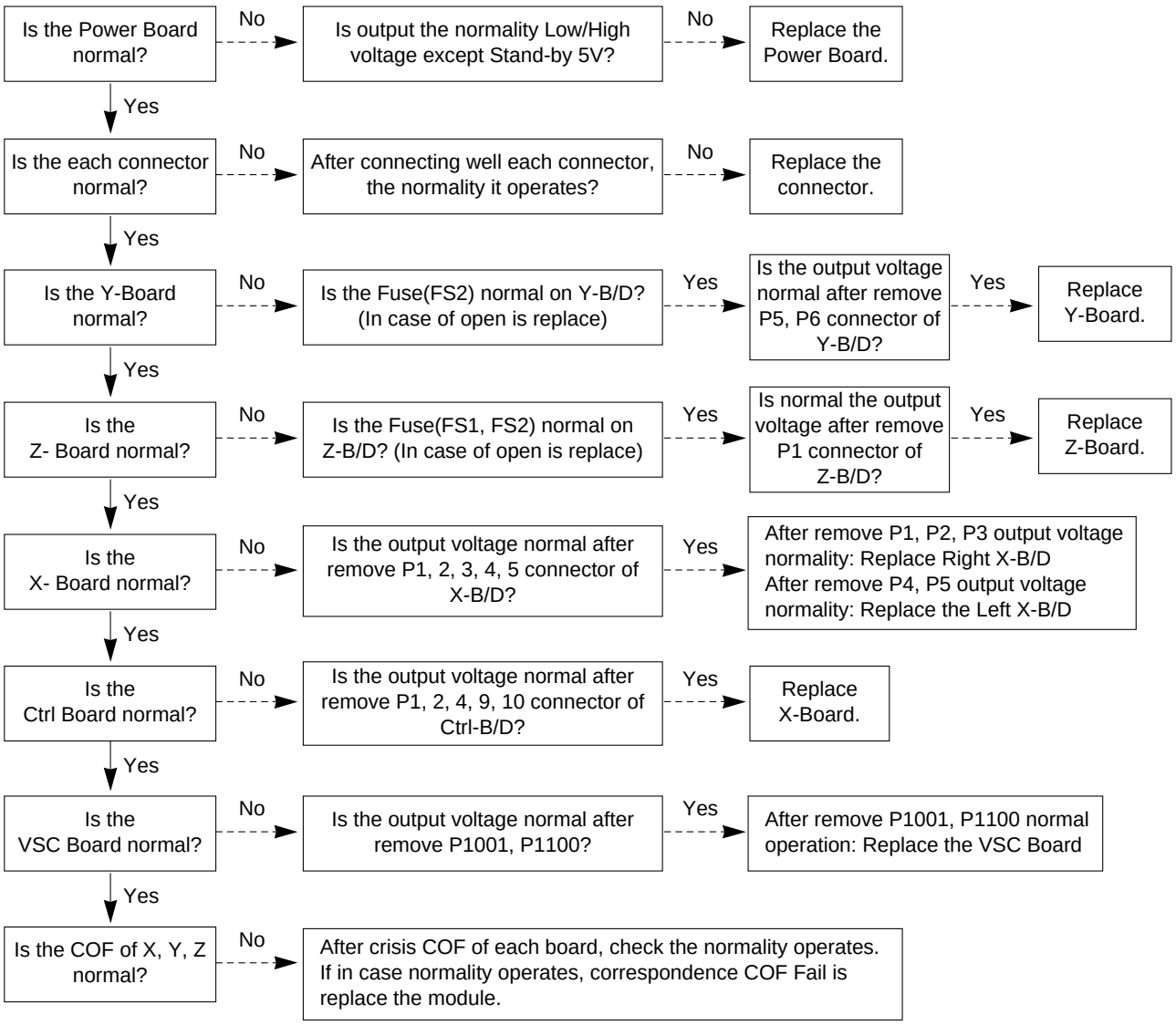
4. No Raster

(1) Symptom

- Does't minute discharge at module.
- It maintains the condition where the front LED is green.



(2) Check following

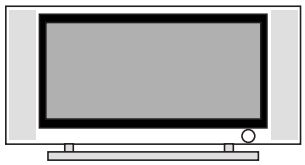

Is the Power Board normal?
No
Is output the normality Low/High voltage except Stand-by 5V?
No
Replace the Power Board.
Yes
Is the each connector normal?
No
After connecting well each connector, the normality it operates?
No
Replace the connector.
Yes
Is the Y-Board normal?
No
Is the Fuse(FS2) normal on Y-B/D? (In case of open is replace)
Yes
Is the output voltage normal after remove P5, P6 connector of Y-B/D?
Yes
Replace Y-Board.
Yes
Is the Z- Board normal?
No
Is the Fuse(FS1, FS2) normal on Z-B/D? (In case of open is replace)
Yes
Is normal the output voltage after remove P1 connector of Z-B/D?
Yes
Replace Z-Board.
Yes
Is the X- Board normal?
No
Is the output voltage normal after remove P1, 2, 3, 4, 5 connector of X-B/D?
Yes
After remove P1, P2, P3 output voltage normality: Replace Right X-B/D
After remove P4, P5 output voltage normality: Replace the Left X-B/D
Yes
Is the Ctrl Board normal?
No
Is the output voltage normal after remove P1, 2, 4, 9, 10 connector of Ctrl-B/D?
Yes
Replace X-Board.
Yes
Is the VSC Board normal?
No
Is the output voltage normal after remove P1001, P1100?
Yes
After remove P1001, P1100 normal operation: Replace the VSC Board
Yes
Is the COF of X, Y, Z normal?
No
After crisis COF of each board, check the normality operates.
If in case normality operates, correspondence COF Fail is replace the module.

5. In case of occurring strange screen into specific mode

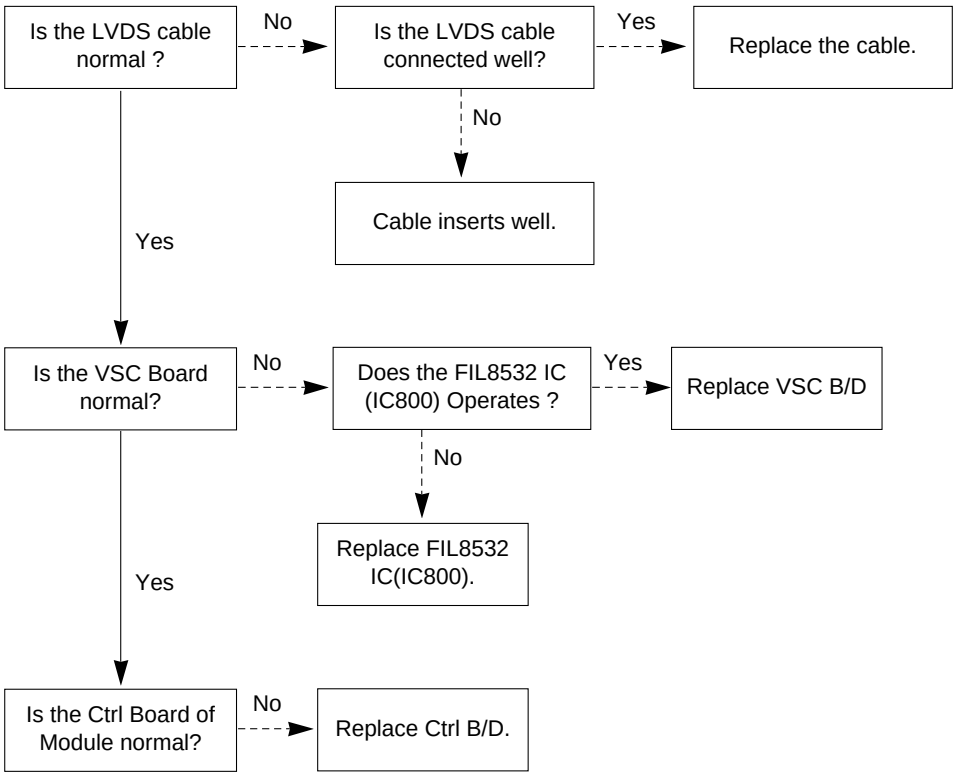
5-1. In case the OSD does not displayed

(1) Symptom

- LED is green
- The minute discharged continuously becomes accomplished from module



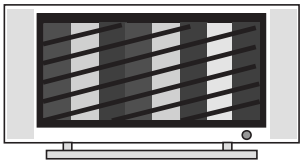
(2) Check following



5-2. In case of does't display the screen into specific mode

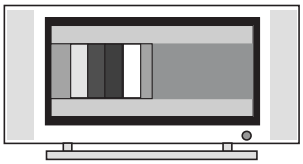
(1) Symptom

- The screen does not become the display from specific input mode (RF, AV, Component, RGB, DVI).

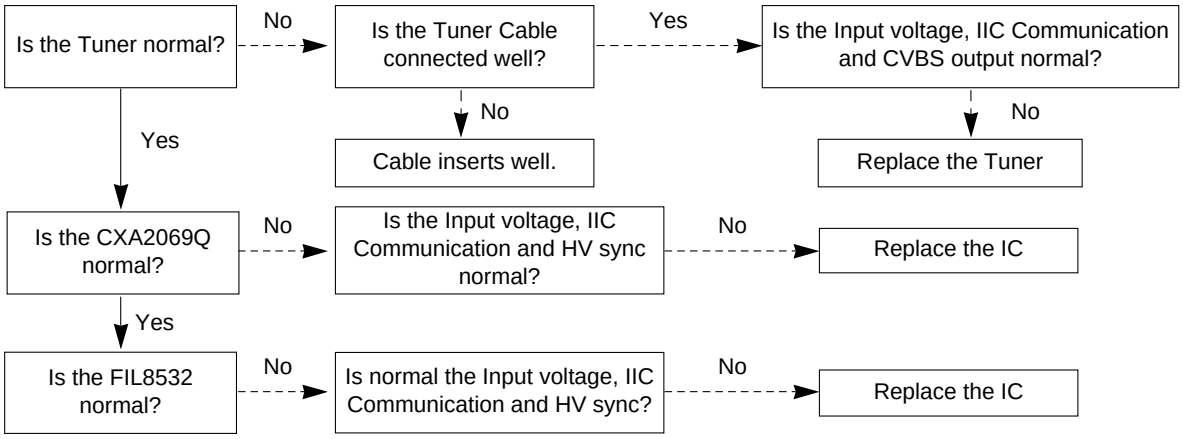


(2) Check following

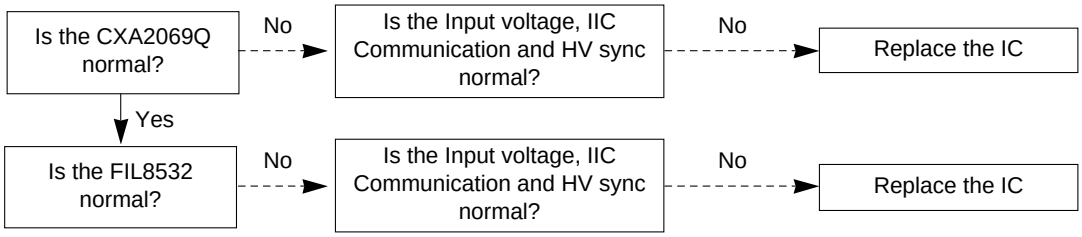
- Check the all input mode should become normality display.
- Check the Video(Main)/Data(Sub), Video(Main)/Video(Sub) should become normality display from the PIP mode or DW mode. (Re-Check it Swap)



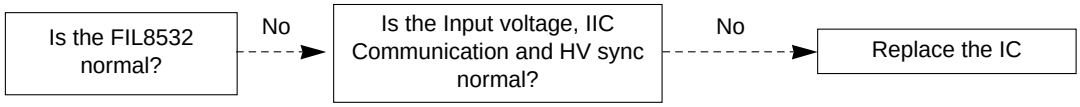
(3) In case of becomes unusual display from RF mode



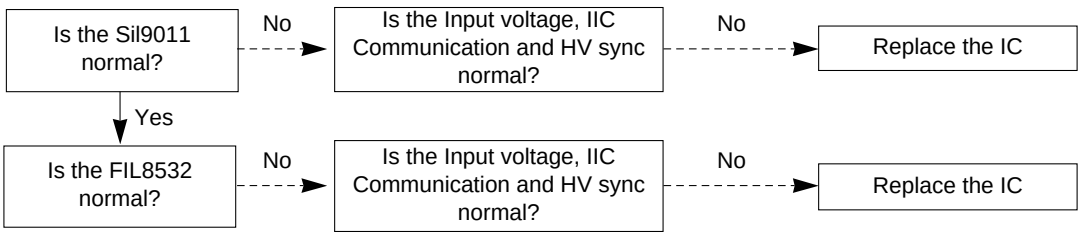
(4) In the case of becomes unusual display from RF, AV mode



(5) In the case of becomes unusual display from Component, RGB mode



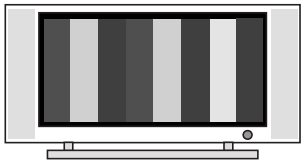
(6) In the case of becomes unusual display from HDMI mode



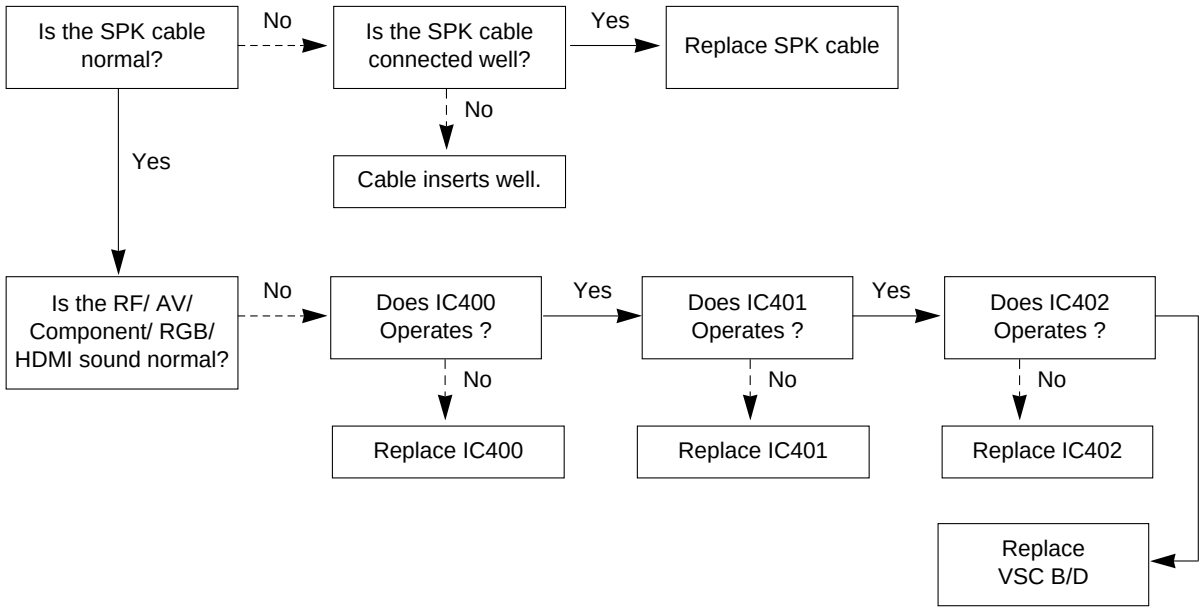
6. In case of no sound

(1) Symptom

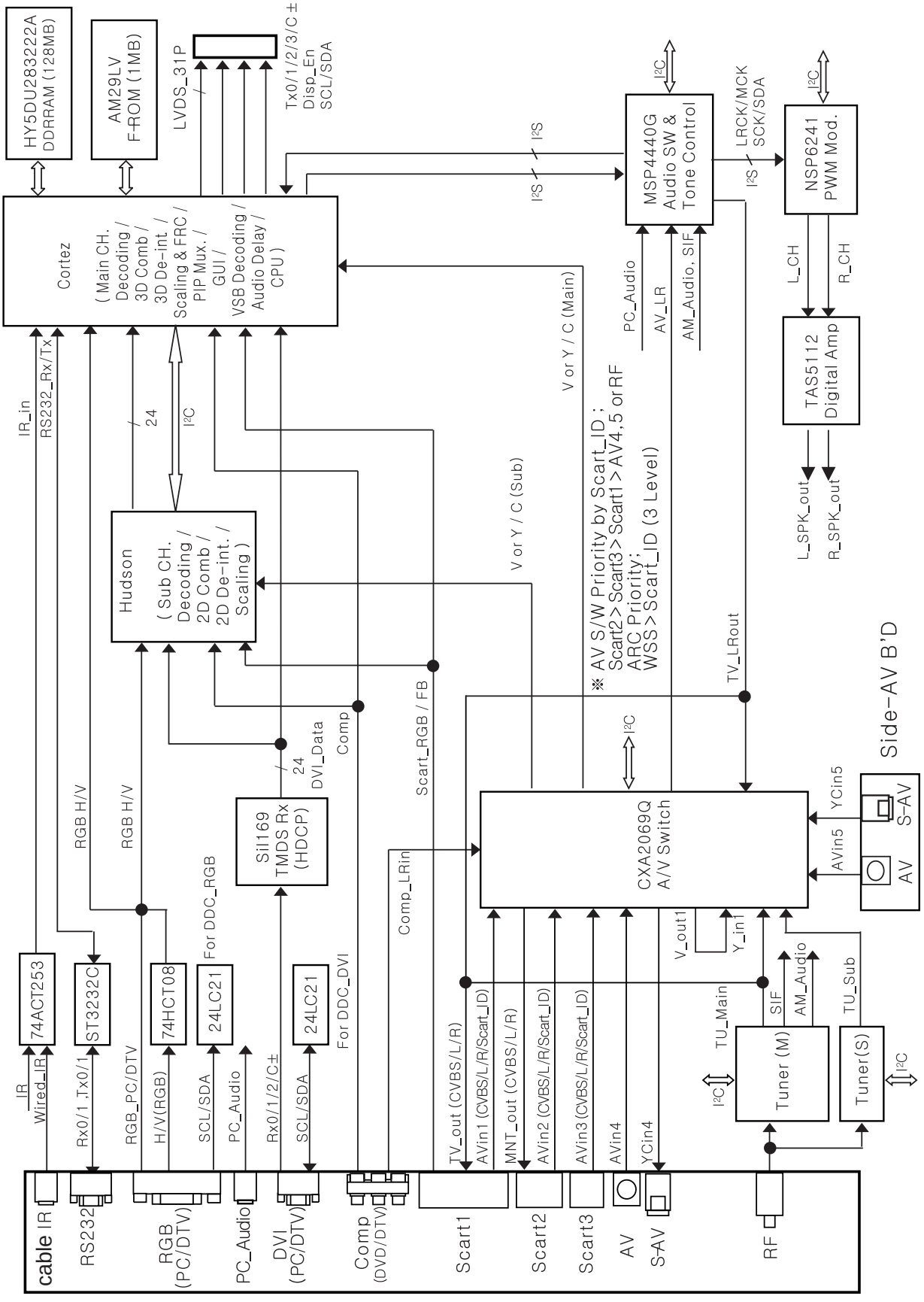
- LED is green
- Screen display but sound is not output



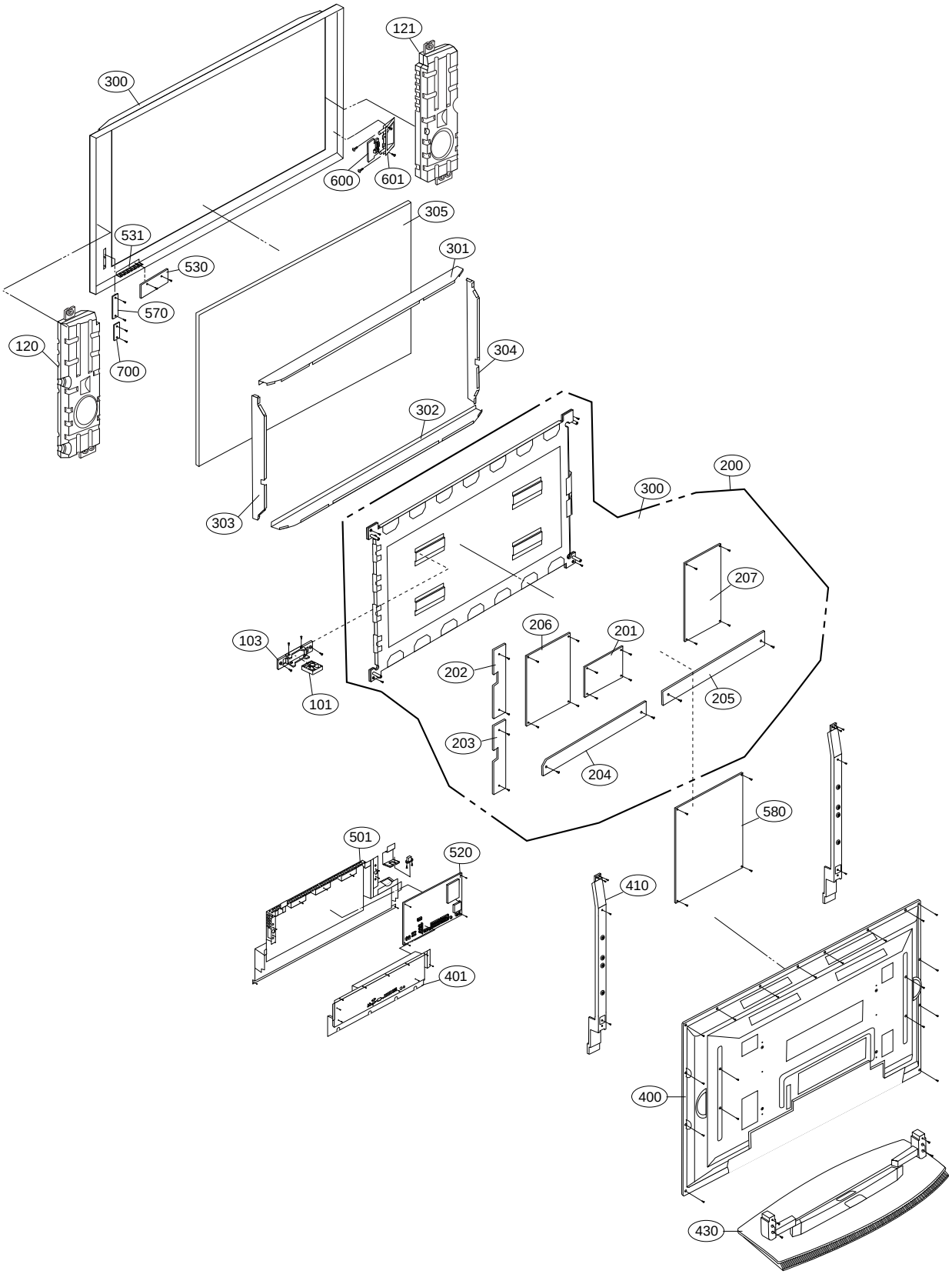
(2) Check following



BLOCK DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	Part No.	Descriptions
101	5900V06008B	FAN,DC G6015S12B2-RG DONGYANG 60*60*15 7V 1900RPM 6/12V L=500MM
103	4980V00D43B	SUPPORTER, FAN SECC(EGI) MZ-42PM10 PRESS
120	6401VD0024A	SPEAKER ASSEMBLY, FULL RANGE(R) NON RZ-42PX40 R
121	6401VD0025A	SPEAKER ASSEMBLY, FULL RANGE(L) NON RZ-42PX40 L
200	6348Q-E101N	PDP, 42” 1024*768 PDP42X20422.ADLGB
201	6871QCH060B	PWB(PCB) ASSEMBLY,DISPLAY CTRL ASSY HAND INSERT 42X2AI
202	6871QDH090B	PWB(PCB) ASSEMBLY,DISPLAY YDRV ASSY HAND INSERT 42”HD 42X2A TOP
203	6871QDH091B	PWB(PCB) ASSEMBLY,DISPLAY YDRV ASSY HAND INSERT 42”HD 42X2A BTM
204	6871QLH037A	PWB(PCB) ASSEMBLY,DISPLAY XRLT ASSY HAND INSERT 42X2 X-LEFT(TCP)
205	6871QRH043A	PWB(PCB) ASSEMBLY,DISPLAY XRRT ASSY HAND INSERT 42X2 X-RIGHT (TCP)
206	6871QYH042B	PWB(PCB) ASSEMBLY,DISPLAY YSUS ASSY HAND INSERT 42”HD 42X2A
207	6871QZH047B	PWB(PCB) ASSEMBLY,DISPLAY ZSUS ASSY HAND INSERT 42”HD 4X2A
300	3091V00739N	CABINET ASSEMBLY, 42PX4R-ZA STEREO E_PHONE LGEFS (SKD)
301	4980V01128C	SUPPORTER, ASSY AL 42PX4D-UB 0.8T TOP C/SKD
302	4980V01130C	SUPPORTER, ASSY AL 42PX4D-UB 0.8T BOTTOM C/SKD
303	4980V01132C	SUPPORTER, ASSY AL 42PX4D-UB 0.8T RIGHT C/SKD
304	4980V01134C	SUPPORTER, ASSY AL 42PX4D-UB 0.8T LEFT C/SKD
305	5230V00019B	FILTER(MECH)- RT-42PX10 FG401PAA-05 LG CHEMICAL GLASS FILTER MECH
400	3809V00513L	BACK COVER ASSEMBLY, 42PX4RV-ZA SKD FOR LGEMA NO HANDLE
401	3301V00049B	PLATE ASSEMBLY, ASSY 3300V00440A RZ-42PX40 MF056A
410	4980V00C84D	SUPPORTER, ASSY AL 42PX4RV-MC LGEAZ CKD PH
430	3501V00216H	BOARD ASSEMBLY, ASSY AP-42DX40 PHANTOM 4980V00E63A
501	3301V00055A	PLATE ASSEMBLY, AV 3301V00053 3301V00054 RZ-42PX40 ASSY
520	6871VMMD73A	PWB(PCB) ASSEMBLY,MAIN MF-056B 42PX4R-ZA XGA MAIN
530	6871VSMS65A	PWB(PCB) ASSEMBLY,SUB CONT MF056A HURRICANE2
531	5020V01022B	BUTTON. CONTROL DU-42PX51X ABS, AF-303S 8KEY TITAN GRAY
570	6871VSMS27A	PWB(PCB) ASSEMBLY,SUB LED MF056A H2 RT-42PX40X INDEX
580	3501V00220A	POWER SUPPLY ASSEMBLY, MF056A HURRICANE2 FREE VOLTAGE SANKEN
600	6871VSMS18A	PWB(PCB) ASSEMBLY,SUB A/V MF056B H2 50PX4R-ZB SIDE AV
601	4811V00357A	BRACKET ASSEMBLY, SIDE AV MF056A SECOND TOOL FOR LGEMA PHANTOM
700	6500VR0002A	SENSOR, YGCA-T068A LG INNOTEK AMBIENT LIGHT DIGITAL EYE ASSY

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
IC		
IC1000	0IPRPML001A	MIC39100 MICREL 3P SOT223 R/TP
IC1001	0IMCRRH001A	BA033FP-E2 ROHM 3P-SOP,TO252-3
IC1002	0IMCRFA010A	KA7809R, FAIRCHILD 2P D-PAK, R/TP
IC1003	0IPMG00027A	SC156515M-1.8TR SEMTECH 5P/TO-263-5
IC1004	0IMCRRH001A	BA033FP-E2 ROHM 3P-SOP,TO252-3
IC1005	0IMCRRH001A	BA033FP-E2 ROHM 3P-SOP,TO252-3
IC101	0IMI623200B	M62320FP,I/O EXPANDER 16P SOP TP
IC102	0IMCRFA015A	KA7805R FAIRCHILD 2P D-PAK R/TP 500MA
IC1100	0IMCRRH001A	BA033FP-E2 ROHM 3P-SOP,TO252-3
IC1101	0IPRPML001A	MIC39100 MICREL 3P SOT223 R/TP
IC1102	0IPMG00027A	SC156515M-1.8TR 5P/TO-263-5 R/TP
IC1103	0IPMGKE030A	KIA78R05F KEC 5PIN DPAK R/TP 1A,5V
IC1104	0IPMG00027A	SC156515M-1.8TR SEMTECH 5P/TO-263-5
IC1105	0IPRPML001A	MIC39100 MICREL 3P SOT223 R/TP
IC1200	0IPRPS5005A	SII9011CLU(PB FREE) SILICON IMAGE 128P
IC1201	0IMMRAL014B	AT24C02N-10SI-2.7 ATMEL 8P SOIC R/TP
IC1300	0IMCRTH003A	THC63LVD104A 64P TQFP TRAY 10BIT
IC202	0IPMGON013B	MC34063ADR2G ON SEMI SO-8P R/TP
IC300	0ISO206900A	CXA2069Q QFP64 BK I2C BUS AV S/W
IC301	0ISA721700C	LA7217M MFP14 TP SYNC SEPARATOR
IC400	0IMCRMN028B	MSP4410K MICRONAS 80P/PQFP
IC401	0ILNR00015A	NSP-2100A,LF NEOFIDELITY TQFP 64P
IC402	0IMCRTI028C	TAS5122DCARG4,LF 56P/TSSOP R/TP
IC404	0IPH741400E	74HC14D 14SOP TP SHITTER TRIGGER
IC500	0IMMRAL014B	AT24C02N-10SI-2.7 ATMEL 8P SOIC R/TP
IC502	0IPH741400E	74HC14D 14SOP TP SHITTER TRIGGER
IC600	0IPRP00009A	ICL3232CBNZ INTERSIL 16P/SOP R/TP
IC601	0IPMGKE032A	KIA78R09F KEC 5PIN DPAK R/TP 1A,9V
IC602	0IPMGKE032A	KIA78R09F KEC 5PIN DPAK R/TP 1A,9V
IC603	0IPRPNS054A	LM75CIMX-3 8P/SOP R/TP TEMPERATURE SENSOR
IC700	0IMCR02006A	FLI8125BB-LF GENESIS 208P/PQFP
IC701	0IMMRAL025A	AT24C32AN-10SI-2.7 8PIN SOP TP 32K 3.3V
IC703	0IMMR00004A	SST25VF040-20-4C-S2AE-T SST SOIC 8P
IC800	0IMCR02005A	FLI8532BD-LF GENESIS 416P/PBGA
IC802	0IMMR00024A	24LC256T-I/SMG(PB FREE) MICRO
IC900	692791001AB	SOFT WARE, 2.02V 1491 PDP MF056B
IC901	0IMMR00002A	K4D261638F-LC50,LF TSOPII 66P
IC902	0IMMR00002A	K4D261638F-LC50,LF TSOPII 66P
S1	692791002AB	SOFT WARE, 2.34V DB9B PDP MF056B
TRANSISTOR		
IC104	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
IC105	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
IC1202	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
IC1203	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
IC200	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
IC201	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
IC503	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
IC504	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
Q100	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q1000	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q1001	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q1002	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q1003	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q1004	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q102	0TR102008AA	KRA102S R/TP KEC SOT23 CHIP TR
Q103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q104	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q104	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q106	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q108	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q1200	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q200	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
Q201	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q202	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q203	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
Q204	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
Q205	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q206	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
Q207	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
Q300	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q301	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q302	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q303	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q304	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q305	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
Q400	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q401	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q402	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q403	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q404	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q405	0TR102008AA	KRA102S R/TP KEC SOT23 CHIP TR
Q407	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q408	0TR102008AA	KRA102S R/TP KEC SOT23 CHIP TR
Q409	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q410	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
Q411	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
DIODE		
D1005	0DD226239AA	KDS226 TP KEC
D1006	0DD226239AA	KDS226 TP KEC
D1007	0DD226239AA	KDS226 TP KEC
D1008	0DD226239AA	KDS226 TP KEC
D1009	0DD226239AA	KDS226 TP KEC
D1010	0DD226239AA	KDS226 TP KEC
D1012	0DD200009AF	RU2M V(1) TP R-TMD 400V 1.1A 20A 0.4US
D1013	0DD200009AF	RU2M V(1) TP R-TMD 400V 1.1A 20A 0.4US
D102	0DD226239AA	KDS226 TP KEC
D103	0DD226239AA	KDS226 TP KEC
D104	0DD226239AA	KDS226 TP KEC

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN : Ceramic
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RD : Carbon Film
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RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
D105	0DD226239AA	KDS226 TP KEC
D106	0DD226239AA	KDS226 TP KEC
D108	0DD226239AA	KDS226 TP KEC
D1100	0DD226239AA	KDS226 TP KEC
D1105	0DD226239AA	KDS226 TP KEC
D1106	0DD226239AA	KDS226 TP KEC
D1107	0DD226239AA	KDS226 TP KEC
D1109	0DD226239AA	KDS226 TP KEC
D1110	0DD226239AA	KDS226 TP KEC
D112	0DD226239AA	KDS226 TP KEC
D113	0DD226239AA	KDS226 TP KEC
D114	0DD226239AA	KDS226 TP KEC
D1200	0DD184009AA	KDS184 TP KEC - 85V - 300MA
D1201	0DS113379BA	1SS133 T-72 TP ROHM KOREA DO34 90V
D300	0DD226239AA	KDS226 TP KEC
D500	0DD226239AA	KDS226 TP KEC
D501	0DD226239AA	KDS226 TP KEC
D502	0DD226239AA	KDS226 TP KEC
D504	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
D505	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
D506	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
D600	0DD100009AM	EU1ZV(1) TP E/EO-TMD 200V 0.25A 15A 0.4US
ZD100	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD101	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD107	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD300	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD301	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD400	0DZRM00248A	RLZ8.2B-TE11 ROHM R/TP LLDS(LL-34
ZD600	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A

CAPACITOR

C1000	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1005	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1007	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1009	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1010	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1019	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1022	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C103	0CE4763F618	47UF SRE,SE 16V 20% FL TP 5
C1030	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1043	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1046	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1047	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1050	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1051	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1064	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1065	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1066	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1067	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1068	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1069	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1071	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD

LOCA. NO	PART NO	DESCRIPTION
C1073	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C108	0CE227SF6DC	220UF MVG 16V 20% R/TP(SMD) SMD
C1082	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1083	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1084	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1085	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1087	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C109	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1098	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1099	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1102	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1105	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1107	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1108	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1110	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1115	0CE477DJ618	470UF STD 35V 20% FL TP 5
C1116	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1117	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1118	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1119	0CE477DJ618	470UF STD 35V 20% FL TP 5
C1120	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1126	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C113	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1135	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1136	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1137	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1138	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C114	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1148	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1149	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1150	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1151	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1154	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1159	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C116	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1162	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1165	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1166	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C117	0CE227SF6DC	220UF MVG 16V 20% R/TP(SMD) SMD
C118	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1185	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1186	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1187	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1188	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1189	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C119	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1190	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1191	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1192	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1193	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1194	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1195	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP

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LOCA. NO	PART NO	DESCRIPTION
C1199	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C120	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1200	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1201	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C121	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1225	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1230	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1231	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1245	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1247	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C129	0CE227SF6DC	220UF MVG 16V 20% R/TP(SMD) SMD
C130	0CE227SF6DC	220UF MVG 16V 20% R/TP(SMD) SMD
C1302	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1304	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1306	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1309	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C131	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1311	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1312	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1313	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1314	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1315	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C1316	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1317	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1318	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1333	0CE336VF6DC	33UF MV 16V 20% R/TP(SMD) SMD
C1334	0CE336VF6DC	33UF MV 16V 20% R/TP(SMD) SMD
C1335	0CE336VF6DC	33UF MV 16V 20% R/TP(SMD) SMD
C1338	0CE336VF6DC	33UF MV 16V 20% R/TP(SMD) SMD
C135	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C1414	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C1415	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C1419	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1420	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1424	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1425	0CE106SH6DC	10UF MVG 25V 20% SMD R/TP
C1428	0CE106SH6DC	10UF MVG 25V 20% SMD R/TP
C1438	0CE106SH6DC	10UF MVG 25V 20% SMD R/TP
C1441	0CE106SH6DC	10UF MVG 25V 20% SMD R/TP
C1506	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C203	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C204	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C208	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C210	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C211	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C214	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C215	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C221	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C238	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C241	0CE476SK6D8	47UF MVG,MC 50V 20% SMD TAPPING
C300	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C304	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP

LOCA. NO	PART NO	DESCRIPTION
C305	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C307	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C310	0CK225DFK4A	2.2UF 2012 16V 20%,-20% F(Y5V) R/TP
C315	0CK225DFK4A	2.2UF 2012 16V 20%,-20% F(Y5V) R/TP
C318	0CK225DFK4A	2.2UF 2012 16V 20%,-20% F(Y5V) R/TP
C319	0CK225DFK4A	2.2UF 2012 16V 20%,-20% F(Y5V) R/TP
C320	0CK225DFK4A	2.2UF 2012 16V 20%,-20% F(Y5V) R/TP
C321	0CK225DFK4A	2.2UF 2012 16V 20%,-20% F(Y5V) R/TP
C325	0CK225DFK4A	2.2UF 2012 16V 20%,-20% F(Y5V) R/TP
C328	0CK225DFK4A	2.2UF 2012 16V 20%,-20% F(Y5V) R/TP
C330	0CK225DFK4A	2.2UF 2012 16V 20%,-20% F(Y5V) R/TP
C338	0CK225DFK4A	2.2UF 2012 16V 20%,-20% F(Y5V) R/TP
C340	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C342	0CE105SK6DC	1UF MVG 50V 20% SMD R/TP
C347	0CE105SK6DC	1UF MVG 50V 20% SMD R/TP
C402	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C403	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C413	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) SMD
C418	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C425	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C444	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C451	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C456	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C457	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) SMD
C462	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C463	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C464	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C465	0CE106SK6DC	10UF MVG 50V 20% SMD R/TP
C480	0CE108DJ618	1000UF STD 35V M FL TP5
C481	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C482	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C483	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C484	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C495	0CE108DJ618	1000UF STD 35V M FL TP5
C527	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C610	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
C614	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C615	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C620	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C621	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C622	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
C728	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C729	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C730	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C731	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C735	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C737	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C739	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C745	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C750	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C752	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C760	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
C762	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C764	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C767	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C771	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C828	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C832	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C833	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C834	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C835	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C836	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C837	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C838	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C839	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C840	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C851	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C853	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C884	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C896	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C901	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C904	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C905	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C930	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C950	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
COIL		
L1000	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L1101	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L1102	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L1103	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L1104	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L1124	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L404	6140VB0032A	DBF-1015A 15.5UH 10PIE DIGITAL AUDIO
L405	6140VB0032A	DBF-1015A 15.5UH 10PIE DIGITAL AUDIO
L406	6140VB0032A	DBF-1015A 15.5UH 10PIE DIGITAL AUDIO
L407	6140VB0032A	DBF-1015A 15.5UH 10PIE DIGITAL AUDIO
CONNECTOR		
C1	387-G07J	7P 2.5MM 500MM H-H UL1007AWG26
C2	387-J12L	12P 2.5MM 700MM H-H UL1185AWG26
C3	6631V00020J	3P 3.96MM 400MM H-W UL1672 AWG18
C4	6631V00045B	10P SPECIAL 150MM H-H UL1007AWG24
C5	6631V12047L	13P 1.25MM 700MM H-H UL1061AWG28
C6	6631V25061D	8P 2.5MM 250MM H-H UL1007AWG24
C7	6631V25083A	7P 2.5MM 100MM H-H UL1007 AWG24
C8	6631V39013Z	8P 3.96MM 650MM H-H UL1617AWG22
C9	6631V39018B	9P 3.96MM 300MM H-H UL1007AWG18
JK500	6630G70016A	A03-7071-094 SPG 15P 2.29MM
JK601	6630G70017A	A02-0915-101 SPG 9P 2.54MM
RESISTOR		
AR1200	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1201	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24

LOCA. NO	PART NO	DESCRIPTION
AR1202	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1203	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1204	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1205	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1301	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1302	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1303	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1304	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1305	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1306	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR700	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR701	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR702	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR703	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR704	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR705	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR806	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51 OHM 5%
AR807	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51 OHM 5%
AR808	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51 OHM 5%
AR809	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51 OHM 5%
AR810	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51 OHM 5%
AR811	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51 OHM 5%
AR812	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51 OHM 5%
AR813	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51 OHM 5%
AR814	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51 OHM 5%
AR815	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51 OHM 5%
AR816	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51 OHM 5%
AR817	0RRZVTA001B	MNR14-E0A-J-510 R OHM 51 OHM 5%
R230	0RD0331H609	3.3 OHM 1/2 W 5.00% TA52
R618	0RD0562H609	56 OHM 1/2 W 5.00% TA52
LED		
D1003	0DL233309AC	SAM2333 GREEN:10MCD, RED:6MCD
D1103	0DL233309AC	SAM2333 GREEN:10MCD, RED:6MCD
IC103	6301V00004A	YANGWOO RT-42PX41 WHITE LED INDEX
SWITCH		
SW101	140-315A	SKHV17910B 12V 0.05A HORIZONTAL 160G
SW102	140-315A	SKHV17910B 12V 0.05A HORIZONTAL 160G
SW103	140-315A	SKHV17910B 12V 0.05A HORIZONTAL 160G
SW104	140-315A	SKHV17910B 12V 0.05A HORIZONTAL 160G
SW105	140-315A	SKHV17910B 12V 0.05A HORIZONTAL 160G
SW106	140-315A	SKHV17910B 12V 0.05A HORIZONTAL 160G
SW107	140-315A	SKHV17910B 12V 0.05A HORIZONTAL 160G
SW108	140-315A	SKHV17910B 12V 0.05A HORIZONTAL 160G
SW700	6600VR1004A	SKHMPW 5P J-ALPS NON .V .A HORIZONTAL .G
SW800	6600VR1004A	SKHMPW 5P J-ALPS NON .V .A HORIZONTAL .G
FILTER & CRYSTAL		
L100	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1004	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1005	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM

LOCA. NO	PART NO	DESCRIPTION
L1006	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1007	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1008	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1009	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L101	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1010	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1011	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1012	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1013	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1014	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1015	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1016	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1017	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1018	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1019	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L102	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1020	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1021	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1022	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1023	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1024	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1025	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L104	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L110	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1105	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1106	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1107	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1108	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1109	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L111	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1110	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1111	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1112	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1113	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1115	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1116	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1117	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1118	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1119	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1120	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1121	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1122	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1123	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1125	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1126	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1127	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1128	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1129	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1130	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L114	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L115	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L119	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA

LOCA. NO	PART NO	DESCRIPTION
L120	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L1204	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1205	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1206	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1207	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1208	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L1209	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L121	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L122	6210VC0005A	BK2125 HS 750 2X1.25X0.85MM R/TP
L123	6210VC0005A	BK2125 HS 750 2X1.25X0.85MM R/TP
L124	6210VC0005A	BK2125 HS 750 2X1.25X0.85MM R/TP
L125	6210VC0005A	BK2125 HS 750 2X1.25X0.85MM R/TP
L126	6210VC0005A	BK2125 HS 750 2X1.25X0.85MM R/TP
L1301	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L200	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L201	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L202	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L203	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L204	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L300	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L301	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L302	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L400	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L401	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L402	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L403	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L408	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L409	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L410	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L500	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L502	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L503	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L506	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L604	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L606	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
L802	6200J000013	MLB-321611-0500P-N2 R/TP 500 OHM
X1200	6212AB2845A	RESONATOR,CRYSTAL ABLS-27.000MHZ
X300	166-E02F	RESONATOR,CERAMIC CSBLA500KECZF09
X400	156-A02M	RESONATOR,CRYSTAL HC49U 18.432MHZ
X700	6212AB2844A	RESONATOR,CRYSTAL ABLS-19.6608MHZ
X800	6212AB2844A	RESONATOR,CRYSTAL ABLS-19.6608MHZ

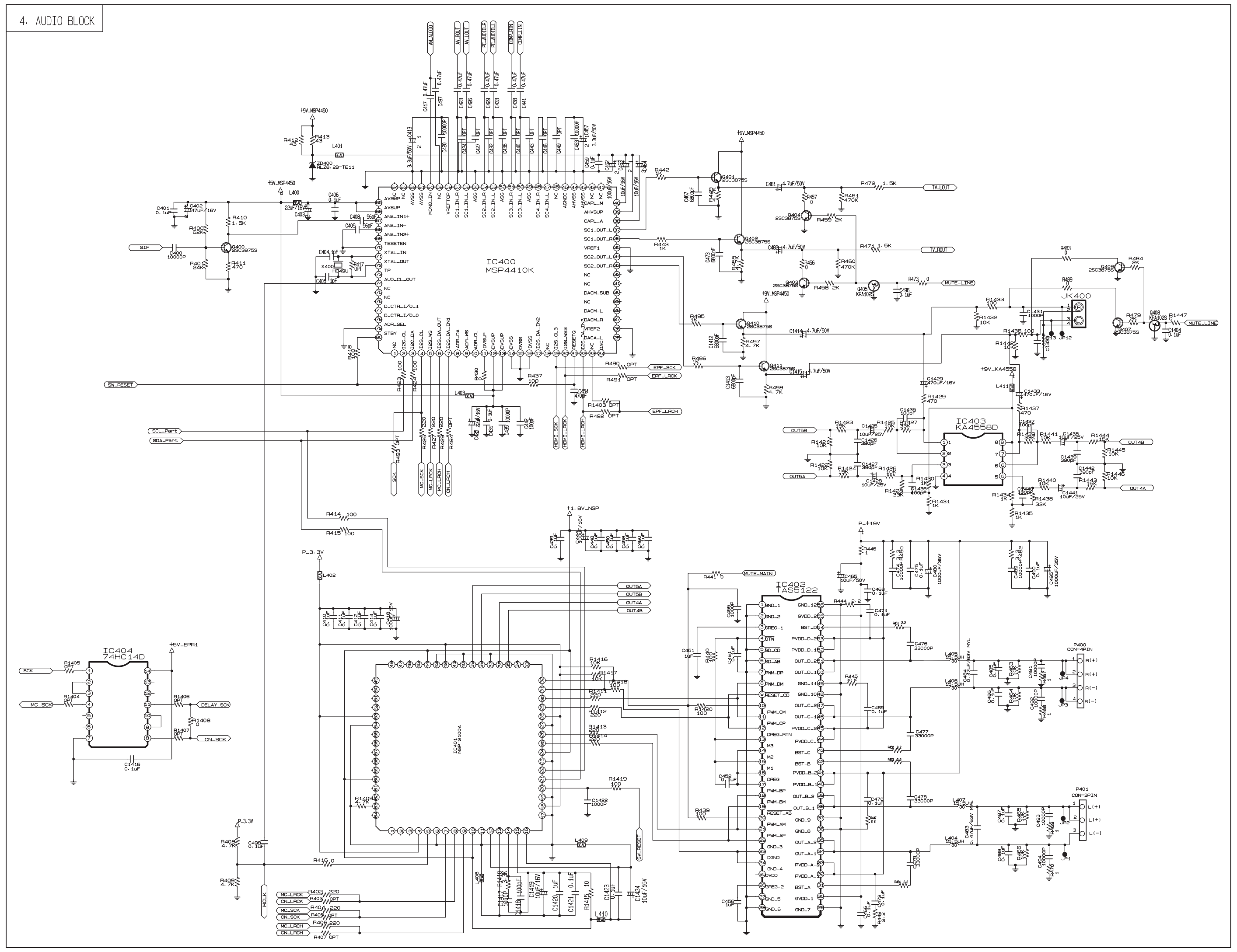
JACK

JK100	6612J00043C	UPJ-R1-031 UGCOM S/T,SCART,SHIELD,SPRING
JK101	6612J00043C	UPJ-R1-031 UGCOM S/T,SCART,SHIELD,SPRING
JK101	6613V00026A	UJB-03-28A UGCOM 6613V00004S
JK102	6612J00043C	UPJ-R1-031 UGCOM S/T,SCART,SHIELD,SPRING
JK103	6612J10012A	UJB-05-02C UGCOM COMPONENT
JK104	6612J00038B	UJB-03-25B UGCOM 6612J00038A+RED
JK1200	6612B00015B	DC1R019WDH JAE 0.5MM,19PIN+2PIN,HDMI S/T
JK400	6612J00037A	UJB-02-12A UGCOM 2P RCA VERTICAL+SHIELD
JK502	6612F00087A	UEJ-CV-032 UGCOM EAR JACK 10MM

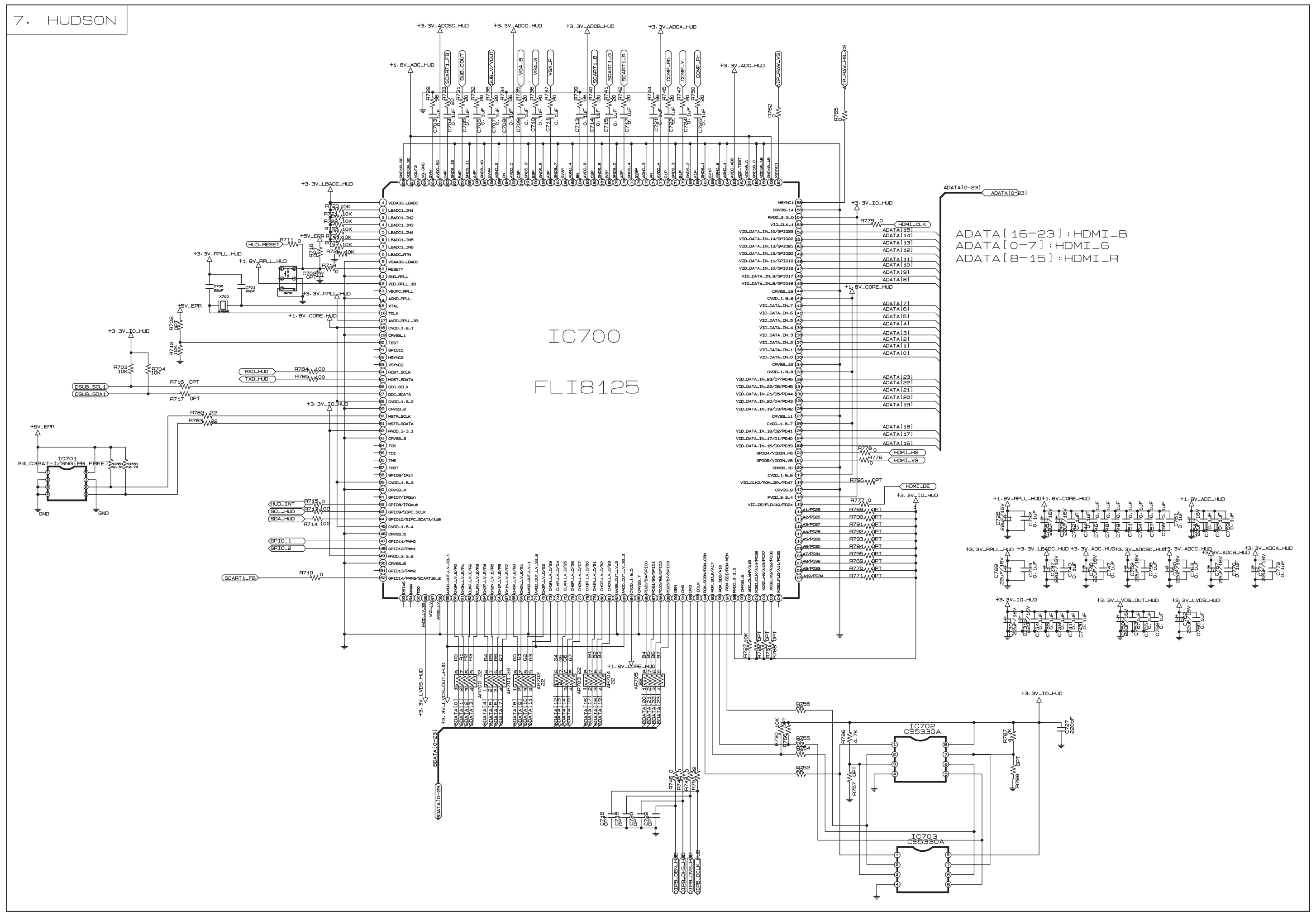
LOCA. NO	PART NO	DESCRIPTION
JK600	6612F00087A	UEJ-CV-032 UGCOM EAR JACK 10MM
ACCESSORIES		
A1	3828VA0525F	MANUAL, USER MF056A LG 42PX4RV/EU
A2	6710V00151E	REMOTE CONTROLLER, AF05GB 42PX4R-ZA INPUT
A3	6410VEH003C	POWER CORD, M2511A-001 VDE/SEMKO 2800MM
A4	4972V00178A	FIXER, WALL NON ASSY PDP SET
MISCELLANEOUS		
C10	6850J00005C	CABLE,DVI LVDS UL20276 AWG30 600MM
C11	6850VA0004J	CABLE,COAXIAL UL1365#26 150MM UCA-EX-069
C12	6851V00019A	CABLE,COAXIAL RF CONN CABLE ASSY 4AC208A0
C13	6851V00022C	CABLE,COAXIAL UL1365#26 VW-1
PA101	6712000010A	REMOTE CONTROLLER RECEIVER,KSM913TC1E
TU200	6700MF0012B	TUNER, TAFM-W102P PHONO SUB
TU201	6700MF0012A	TUNER, TAUM-W101P PHONO MAIN

LOCA. NO	PART NO	DESCRIPTION

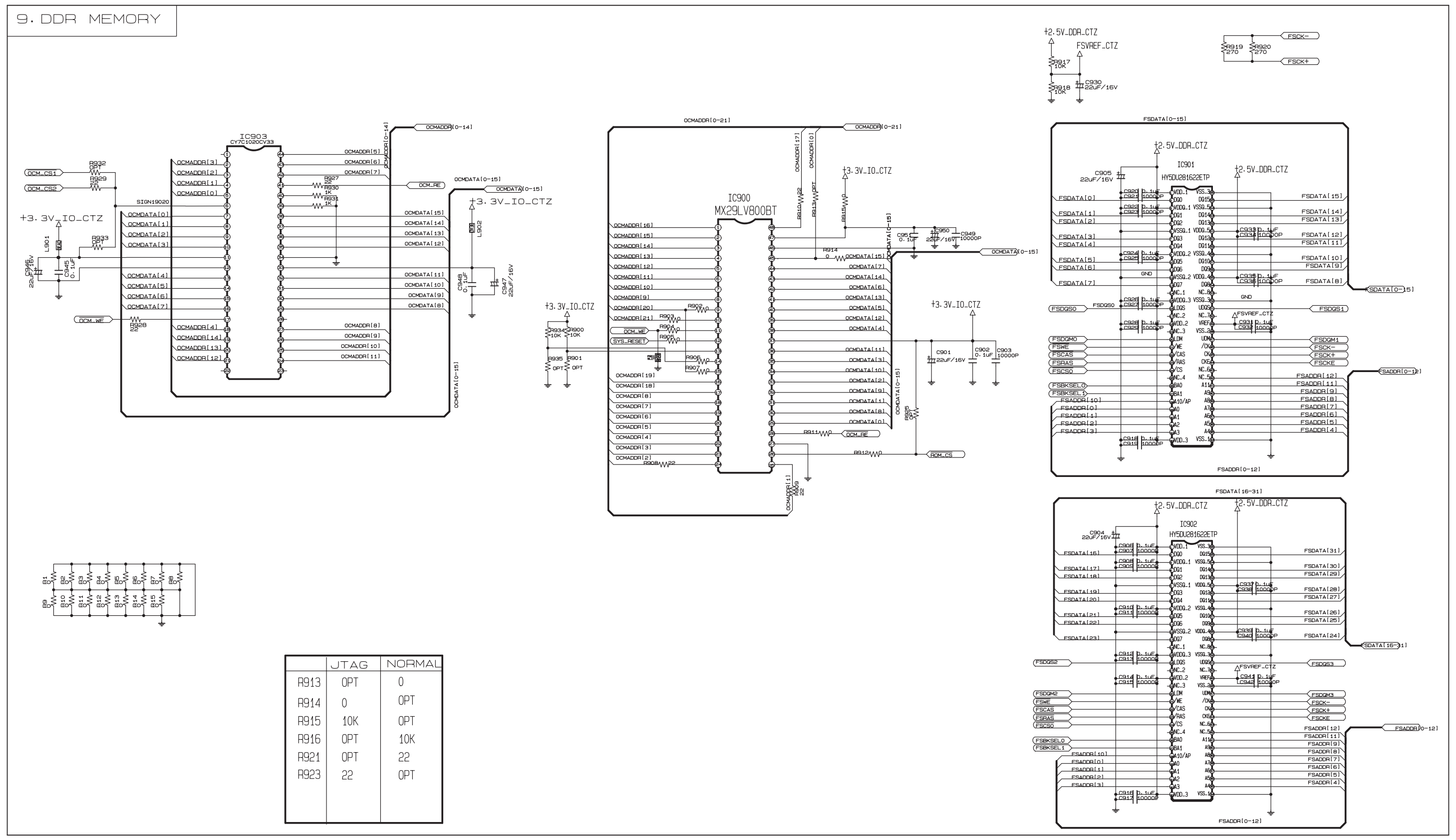
4. AUDIO BLOCK



7. HUDSON

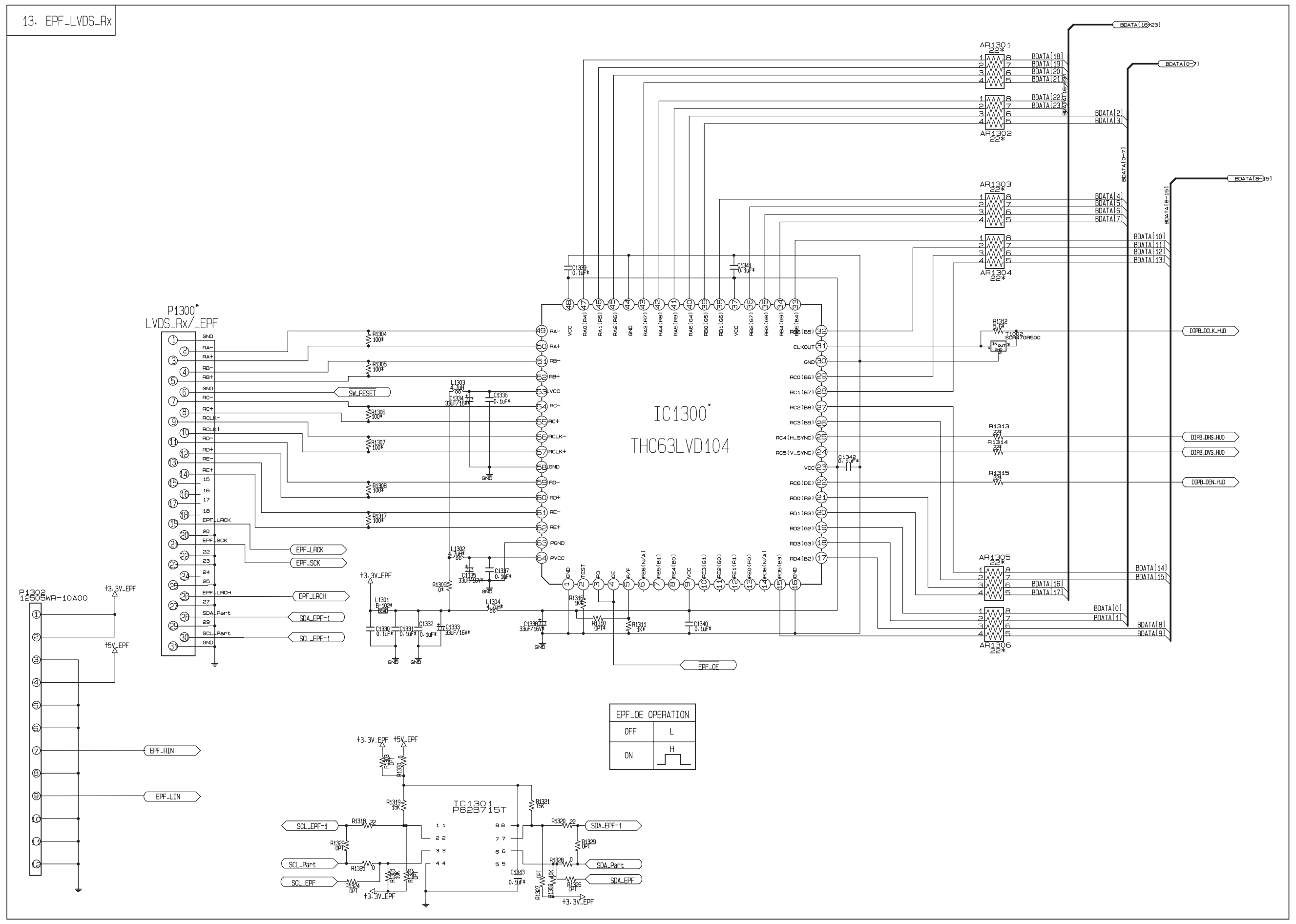


9. DDR MEMORY

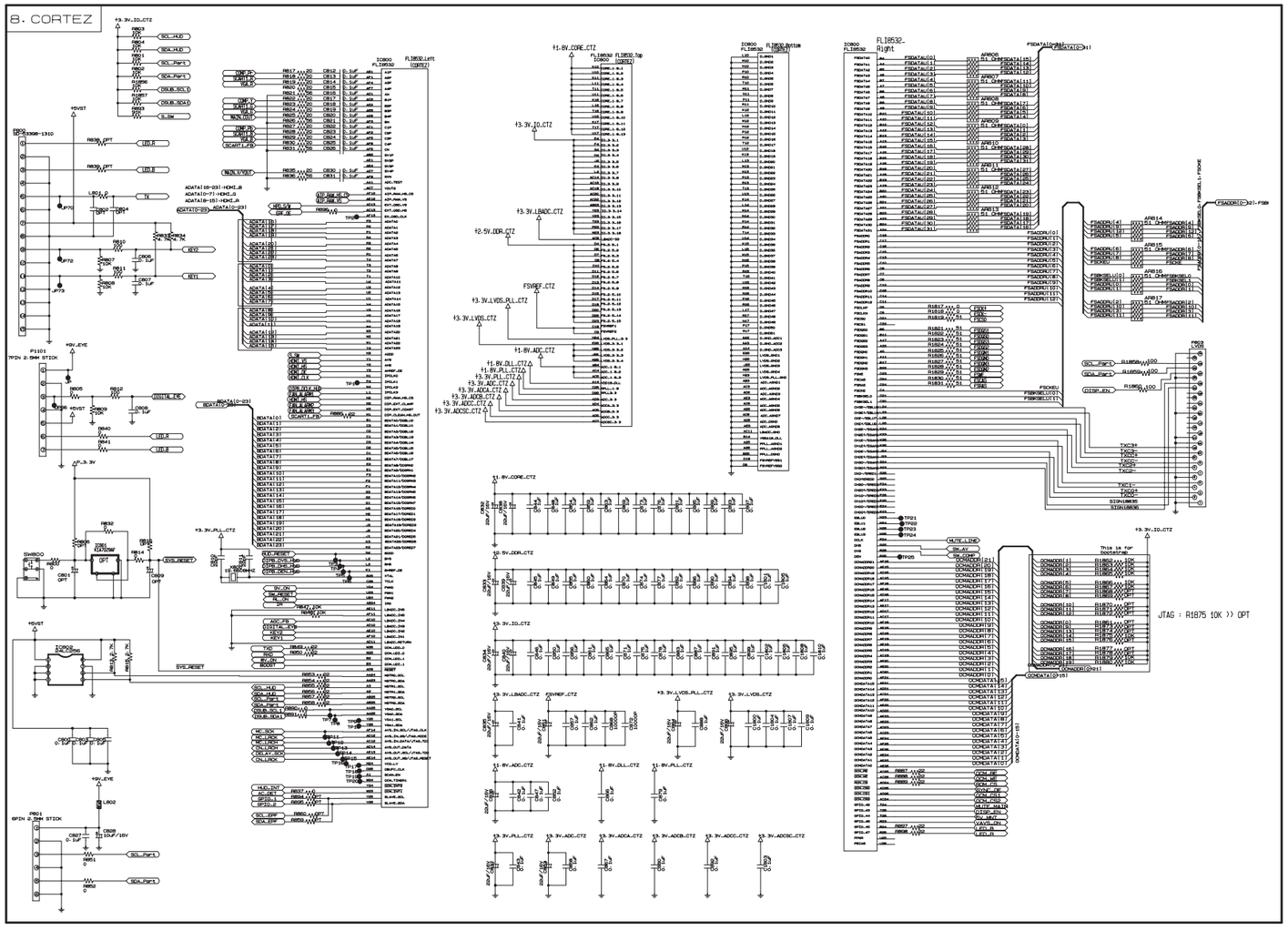


	JTAG	NORMAL
R913	OPT	0
R914	0	OPT
R915	10K	OPT
R916	OPT	10K
R921	OPT	22
R923	22	OPT

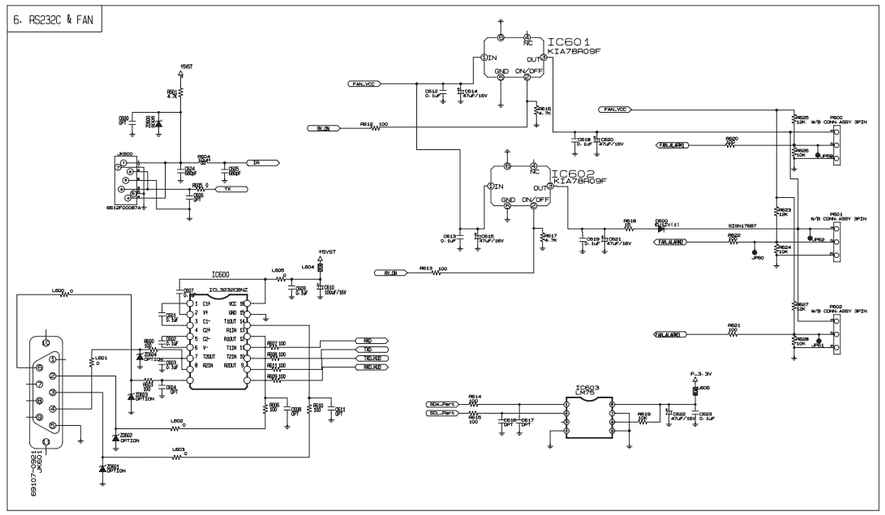
13. EPF_LVDS_Rx



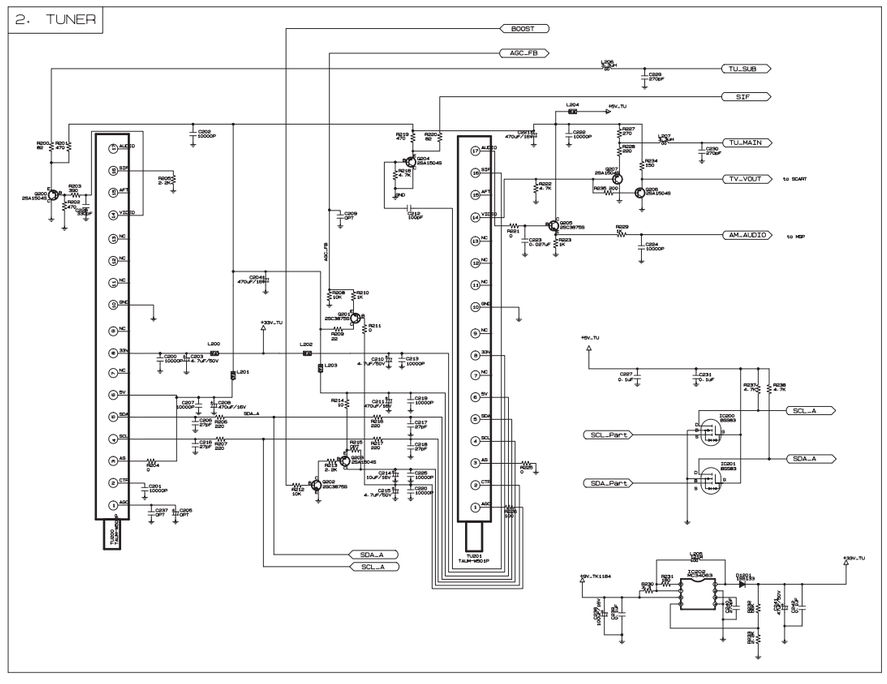
8. CORTEZ



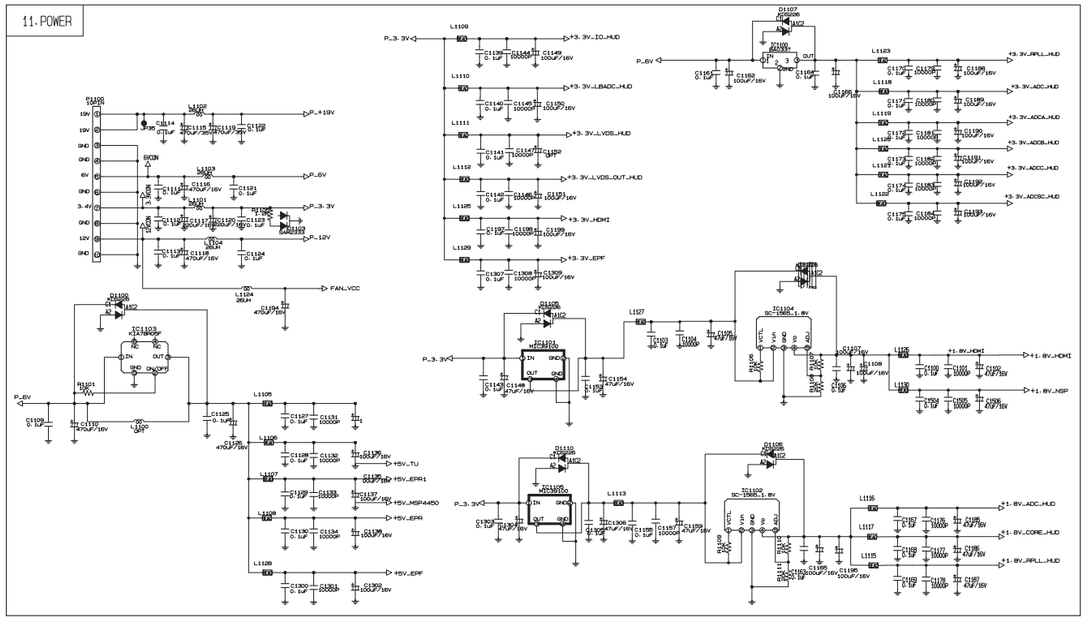
6. RS232C & FAN



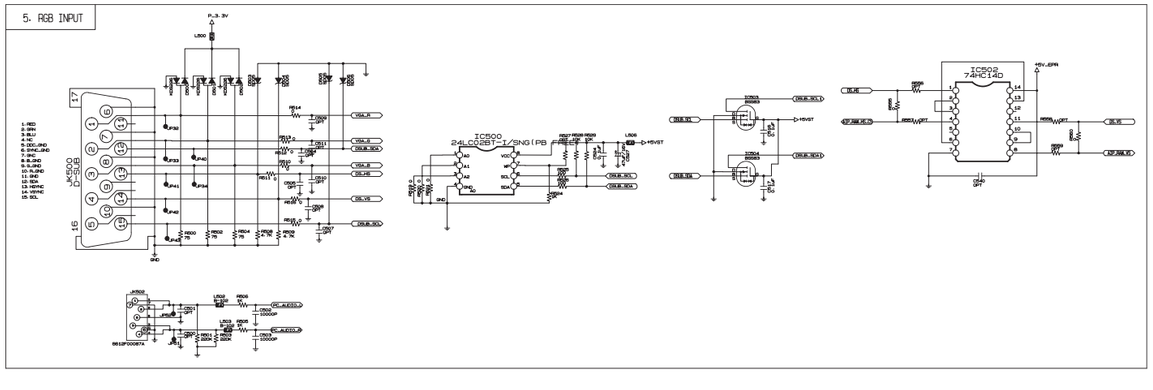
2. TUNER



11. POWER



5. RGB INPUT



12. HDMI Rx

IC1201 24LC02BT-I/SN(RB FREE)

IC1200 SiI9012

ADATA[15-23]:HDMI_B
ADATA[0-7]:HDMI_G
ADATA[8-15]:HDMI_R

HPD OPERATION

NORMAL	L
POWER ON	H (100ms)

1. SCART & AV JACK

JK100 6612J00043C

JK102 6612J00043C

JK101 6612J00043C

JK103

JK104 J60308B

3. AV SWITCH

IC300

IC301 LA7217M

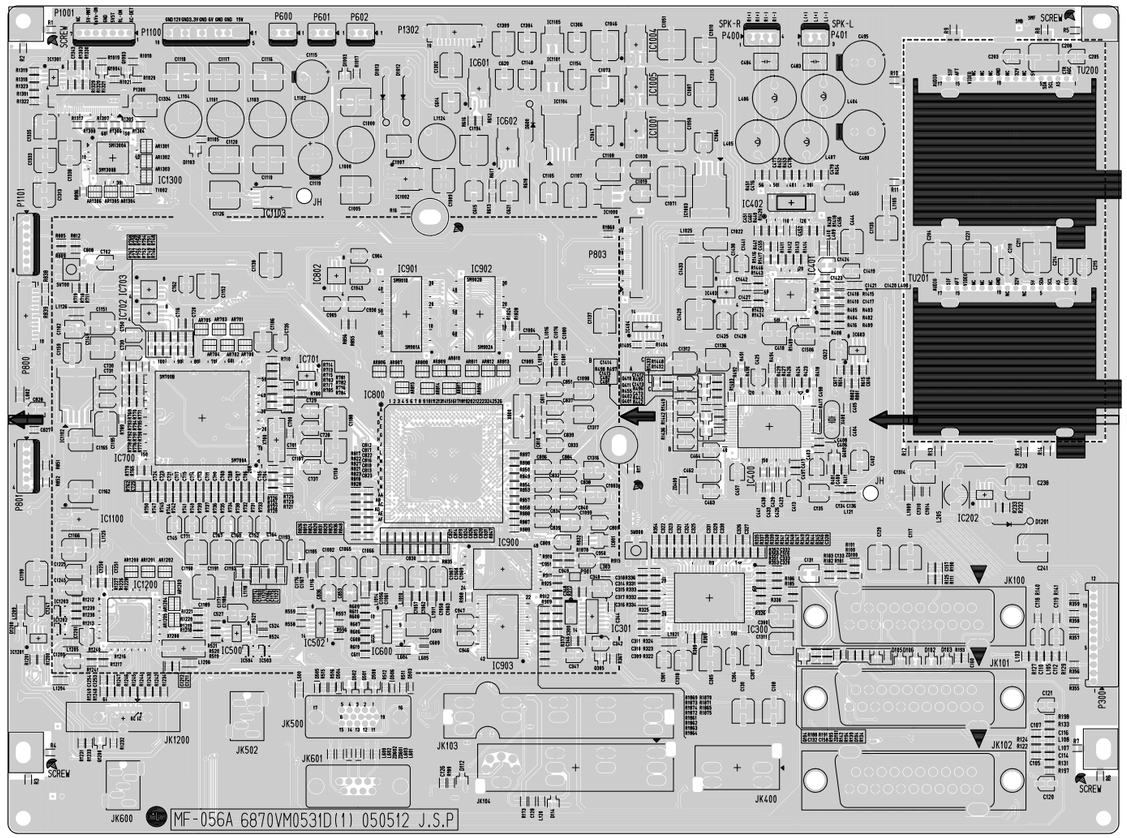
MNT OUT SCART 2	MNT_VOUT, MNT_LOUT, MNT_ROUT
SUB OUT CVBS/S	SUB_V/YOUT, SUB_COUT
MAIN OUT CVBS/S	MAIN_V/YOUT, MAIN_COUT
Back Input Video 4	CIN4, RIN4, YIN4, LIN4, VIN4, SD_SW
Front Input Video 5	CIN5, RIN5, YIN5, LIN5, VIN5
Front AV Input #1	AV2_SW
2 TUNER Input	TV_LOUT, TV_ROUT, TU_MAIN, TU_SUB

P300 12-PIN

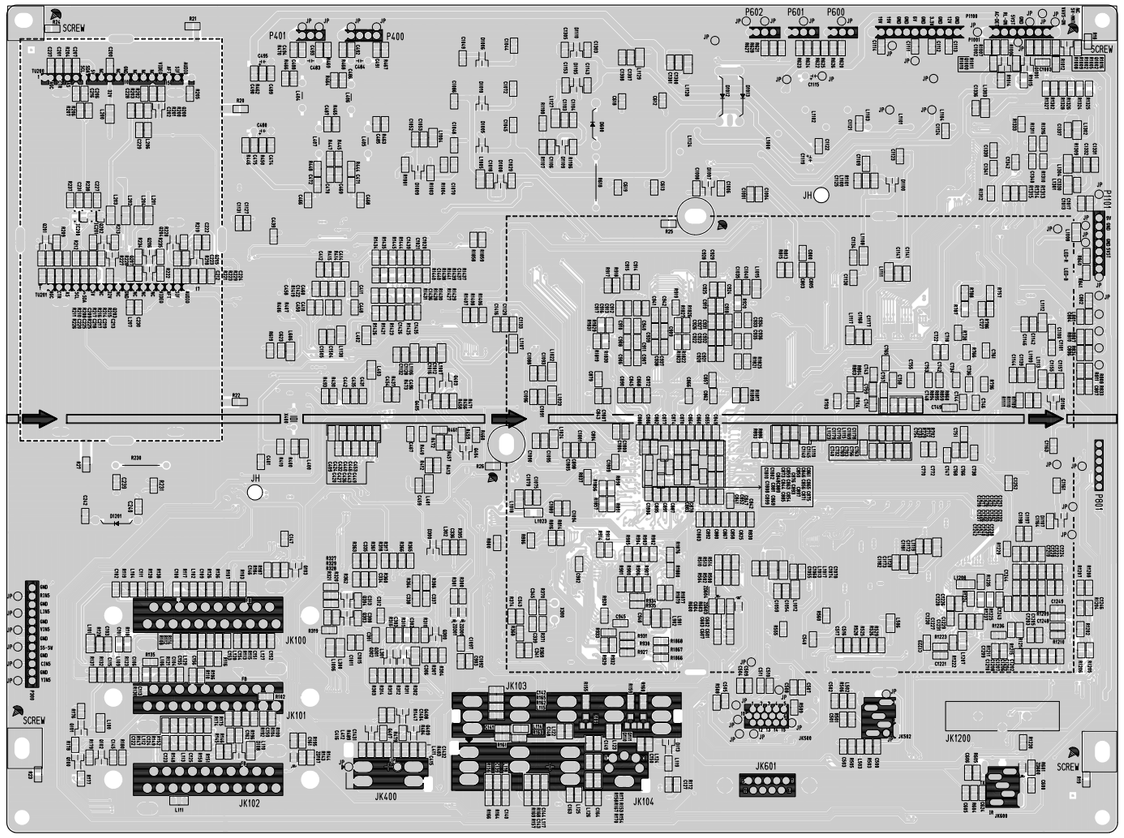
10. POWER

PRINTED CIRCUIT BOARD

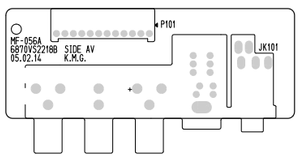
MAIN (TOP)



MAIN (BOTTOM)



SIDE A/V(TOP)



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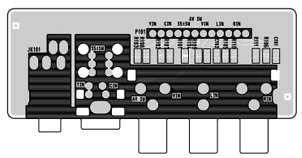

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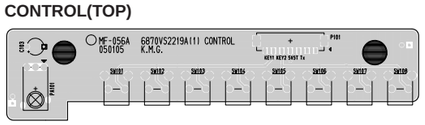

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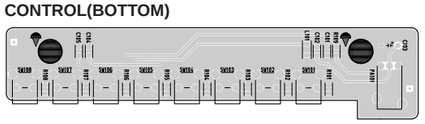

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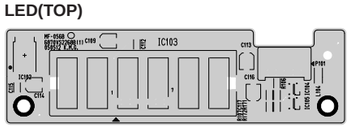

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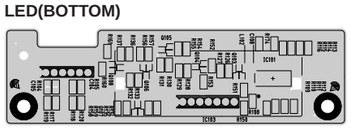

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